

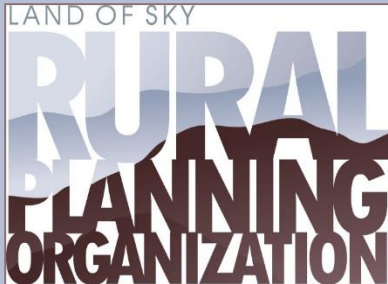
# Transylvania County Comprehensive Transportation Plan (CTP) Meeting #4

NCDOT Transportation Planning Division (TPD)

**Daniel Sellers, PE**

Land of Sky Rural Planning Organization (LOSRPO)

**Vicki Eastland**



# Welcome and Introductions



Vicki Eastland, LOSRPO  
October 8, 2019

# Agenda

**3:00 PM Welcome and Introductions**

**3:05 PM Brief Group Discussion. Questions from previous meeting**

**3:10 PM Recap of previous materials covered**

**3:25 PM Transportation System Resiliency**

**3:35 PM Review Resiliency maps (mark-up exercise)**

**3:50 PM Seasonal Traffic Projections**

**4:05 PM Volume/Capacity, modernization, existing  
and proposes projects maps (mark-up exercise)**

**4:25 PM Next meeting Date?**

**4:30 PM Wrap-Up**

# Desired Outcomes

1. New Work Group members are up to speed on process and materials.
2. Work Group **provides direction** on **deficiencies** and **advises** project team on **additional highway needs including resiliency concerns** (via mark-up exercise or comments)
3. Work Group **provides input** on **Seasonal Traffic Projections**
4. Future meeting November ?

**FACILITY TYPES**  
Facility classifications for mobility and control of access planning through 2045

**TRANSYLVANIA COUNTY**  
Comprehensive Transportation Plan  
Facility Types and Control of Access  
(Listed in Order of Mobility Function)

	Projected	New Location
Freeway		
Expressway (Multilane Divided)		
Boulevard (Multilane Undivided)		
Major Thoroughfare (Multilane Undivided)		
Major Thoroughfare (2 Lane)		
Minor Thoroughfare		
Other Features		
Studied Roads		

Full report at: <https://tinyurl.com/y3wy3fe3>

Sheet 1 of 4  
Base map date: March 18, 2018

**Legal Disclaimer**  
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**DRAFT WORKING MAP**  
Plan Date: May 11, 2019



# What is a CTP?

- Comprehensive Transportation Plan
- Long-range, multi-modal transportation plan
  - 25 to 30 year planning period
  - System Focused Plan
- Incorporates land use plans, community & statewide goals
- Developed cooperatively among local stakeholders, Rural Planning Organization (RPO), and NCDOT

# What is a CTP?

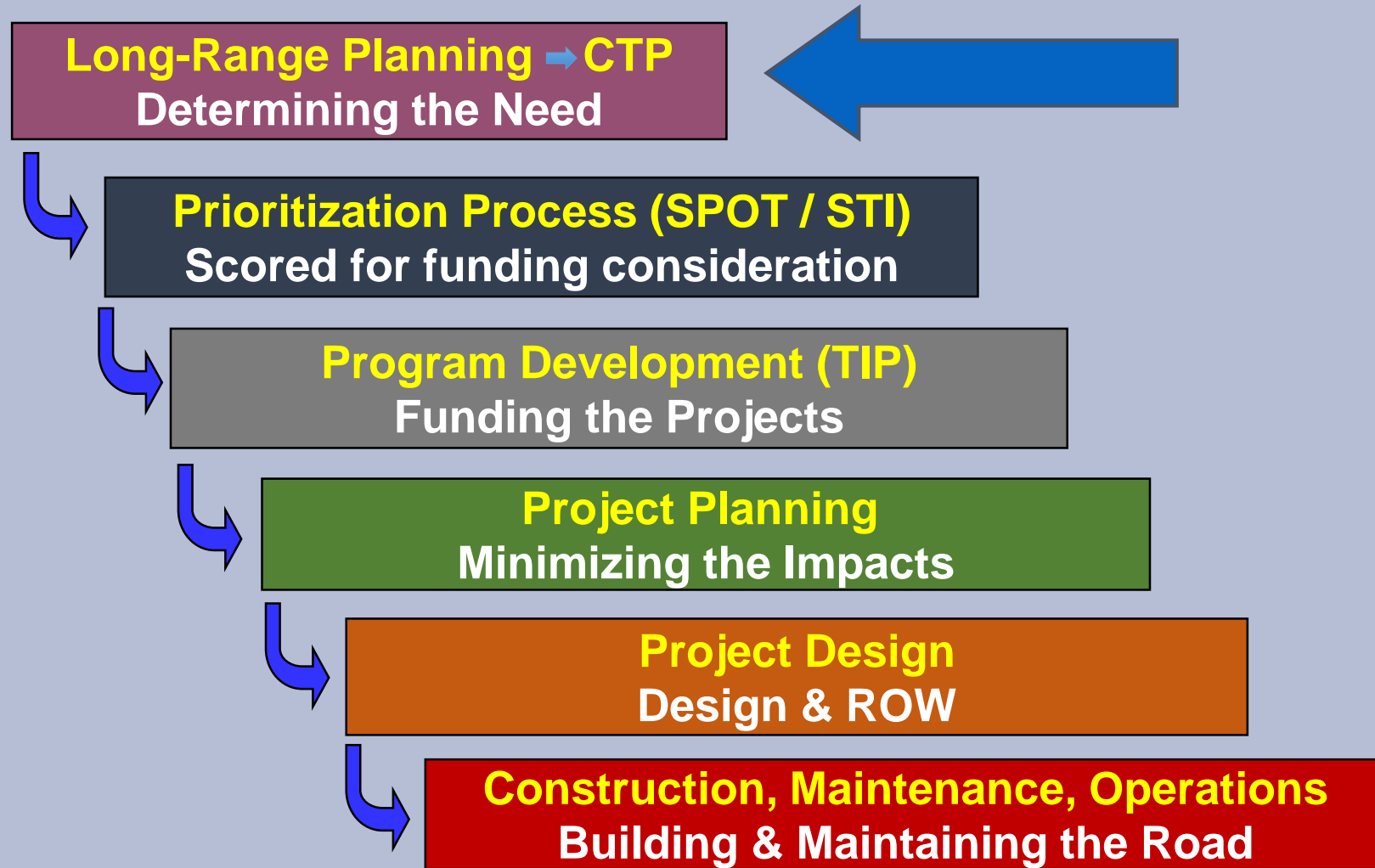
- It strives to **anticipate future deficiencies** and provide **proposals to address each deficiency**
- It gives due **consideration** to the **human and natural environment**
- It is **accountable** to the **public** through the **formal public involvement process**

# What is in a CTP?

<ul style="list-style-type: none"><li>• Current and Future Conditions<ul style="list-style-type: none"><li>• Lanes, (number/width)</li><li>• Right-of-Way (ROW)</li><li>• Volume and Capacity</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Recommendations<ul style="list-style-type: none"><li>• Existing</li><li>• Needs Improvement</li><li>• Recommended on new location</li></ul></li></ul>
<ul style="list-style-type: none"><li>• Multimodal Maps<ul style="list-style-type: none"><li>• Highway</li><li>• Public Transportation and Rail</li><li>• Pedestrian</li><li>• Bicycle</li></ul></li></ul>	



## Where does the CTP fit into the “Big Picture”?

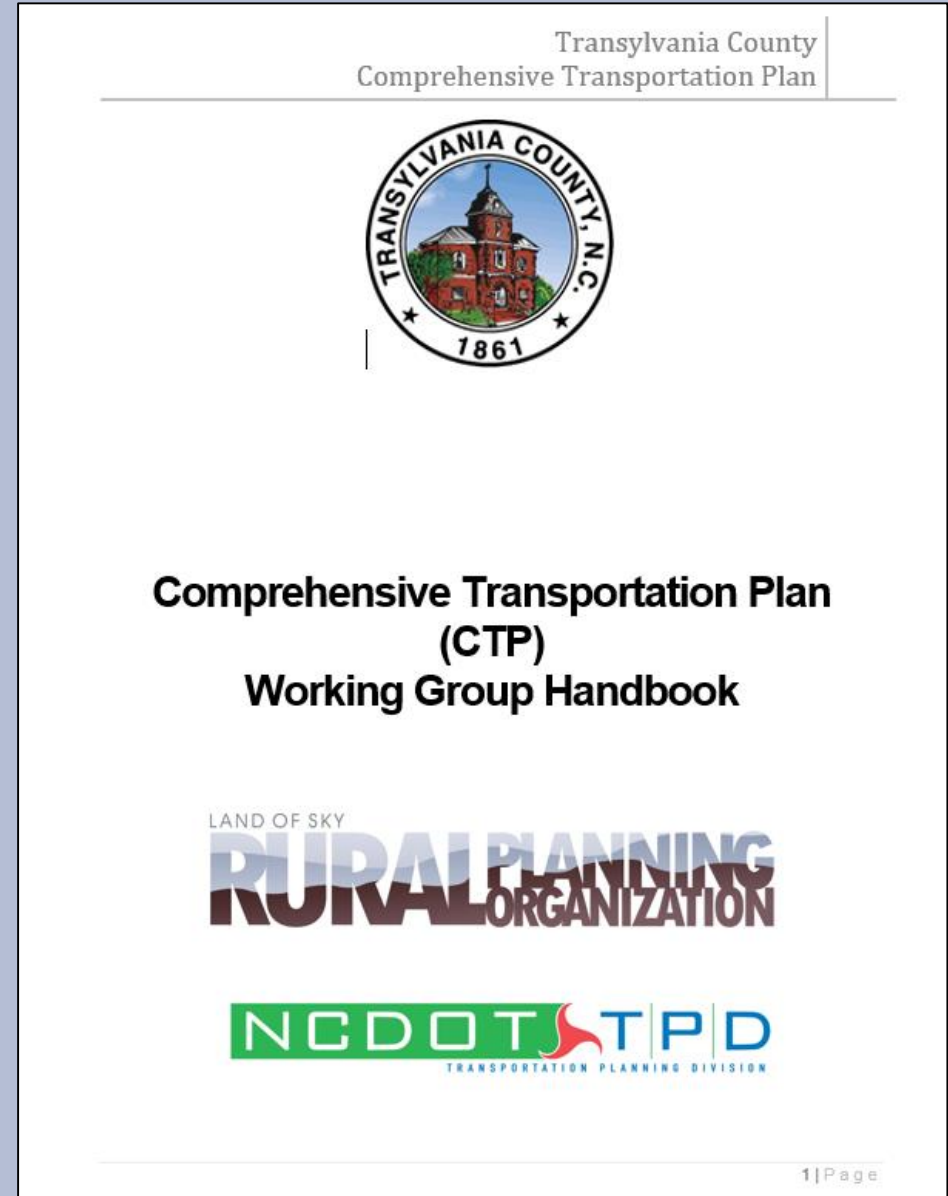


# What are the Benefits of a CTP?

- Common, long-range vision for facilities among local governments, RPO, and NCDOT
- Results feed into the **prioritization process** and help guide the **development of projects** to be considered for inclusion in **State Transportation Improvement Program (STIP)**
- It aims for **faster project delivery** by utilizing **project vision**, **environmental constraints**, and **public outreach** in the project delivery
- CTP recommendations are **concepts**, and any funded project will go through an **environmental process before final alignments or designs can be determined**

# CTP Work Group Hand Book

- Resource for contact information
- Work Group Roles and responsibilities
- Key Staff Roles
- Preliminary CTP Study Schedule/timeline
- Glossary of Transportation Acronyms



# Work Group Roles

- You have a **unique local viewpoint...**
- During plan development you should provide **your perspective** and **insight...**
- Networking/Recruitment; You know others with a **keen interest** in the **area's future transportation needs**; including friends, neighbors, business associates...
- Public Meeting **support**; going forward we may need your help with public meeting support.



[www.transylvaniacounty.org/sites/default/files/departments/planning/docs/Appendix-D-Community-Meetings-Report.pdf](http://www.transylvaniacounty.org/sites/default/files/departments/planning/docs/Appendix-D-Community-Meetings-Report.pdf)

# Key CTP Staff

## **Vicki Eastland, with Land of Sky Rural Planning Organization (LOSRPO)**

- Communication and Facilitation
- Data review

## **Daniel Sellers, with NCDOT Transportation Planning Division,**

- Data gathering and Analysis
- Production of CTP maps and report.

**Steve Williams**, NCDOT Division 14 Planning Engineer

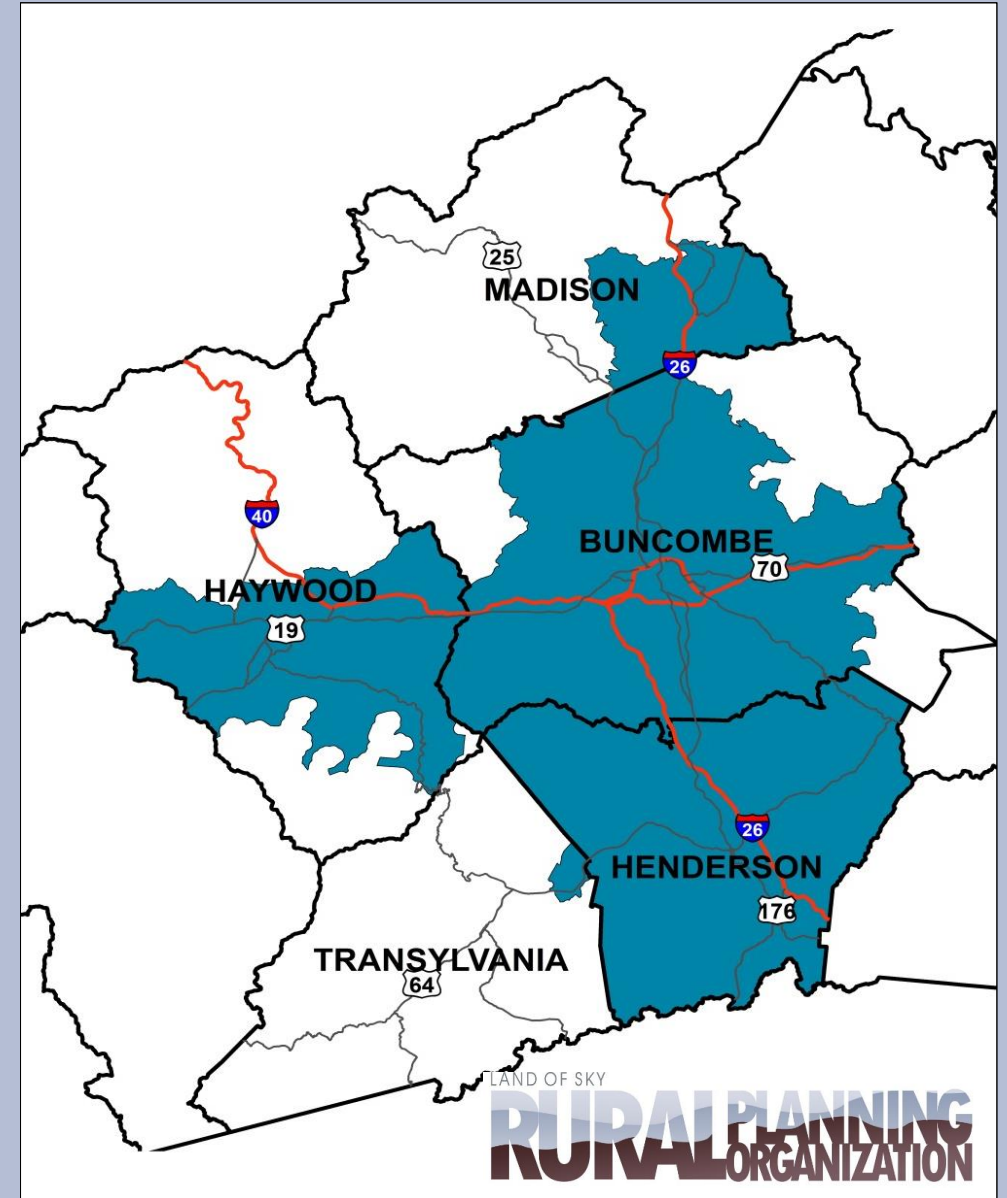
**Lonnie Watkins**, NCDOT Division 14 District 1 District Engineer

**Troy Wilson**, NCDOT Division 14 Corridor Development Engineer

# Who is Land of Sky RPO

## Land of Sky RPO

- Housed at Land of Sky Regional Council since 2003
- Areas in white on the map
- Transylvania, Rural areas of Madison, Haywood and Buncombe
- More info at <http://www.landofsky.org/rpo.html>





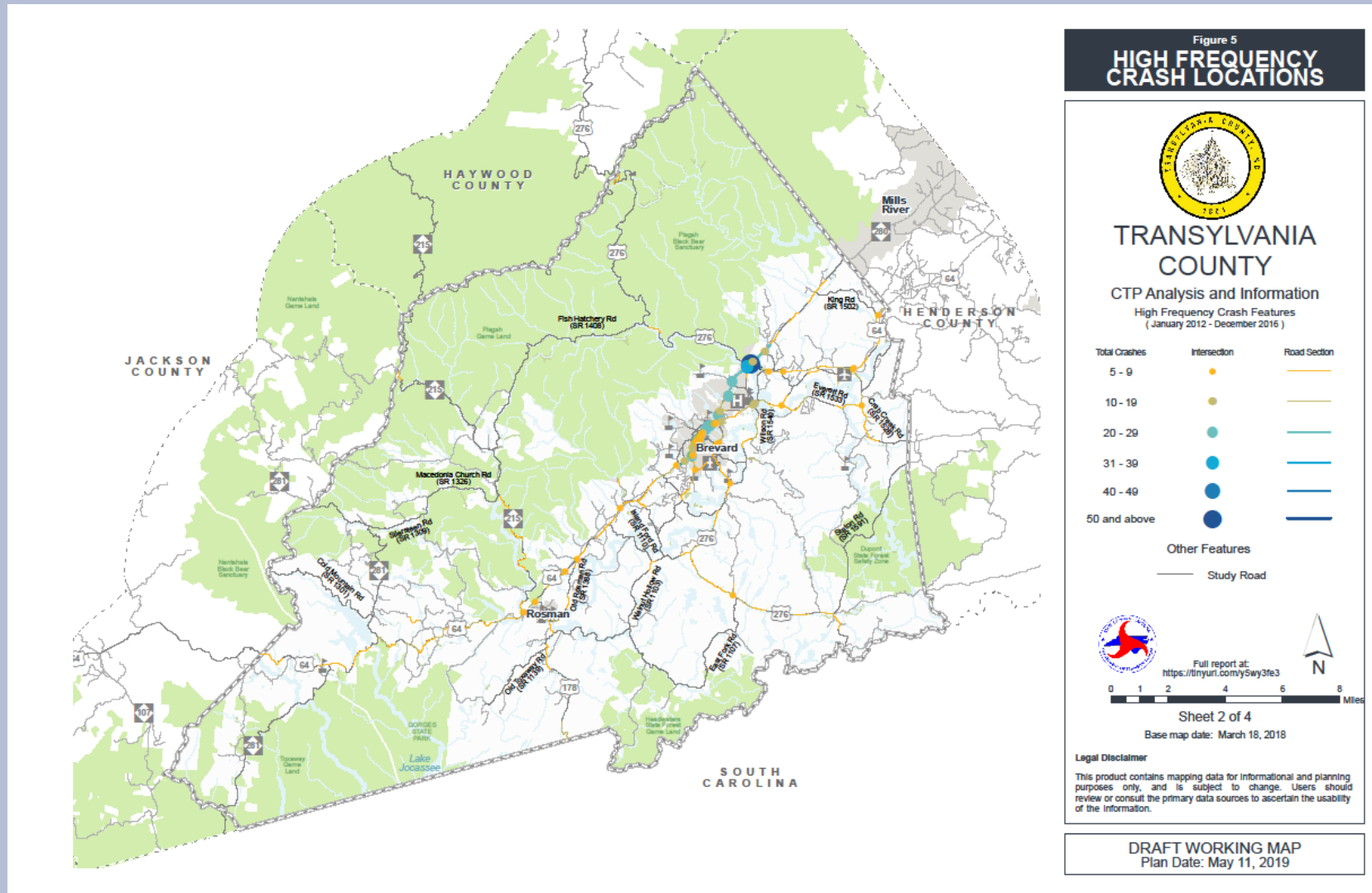
# What does Land of Sky RPO Do?

- Provide local officials with transportation related info
- Forum for public input on transportation information
- Perform data gathering and analysis
- Work with our member governments, NCDOT partners on the State Transportation Improvement plan (STIP) development, AKA SPOT
- Represent RPO areas on project development and Scoping
- Work with NCDOT Transportation Planning Division on Development of CTP's





# Safety, Volume/Capacity, Modernization Deficiencies & Existing and Proposed Projects Map Review



# Highway Crash Data

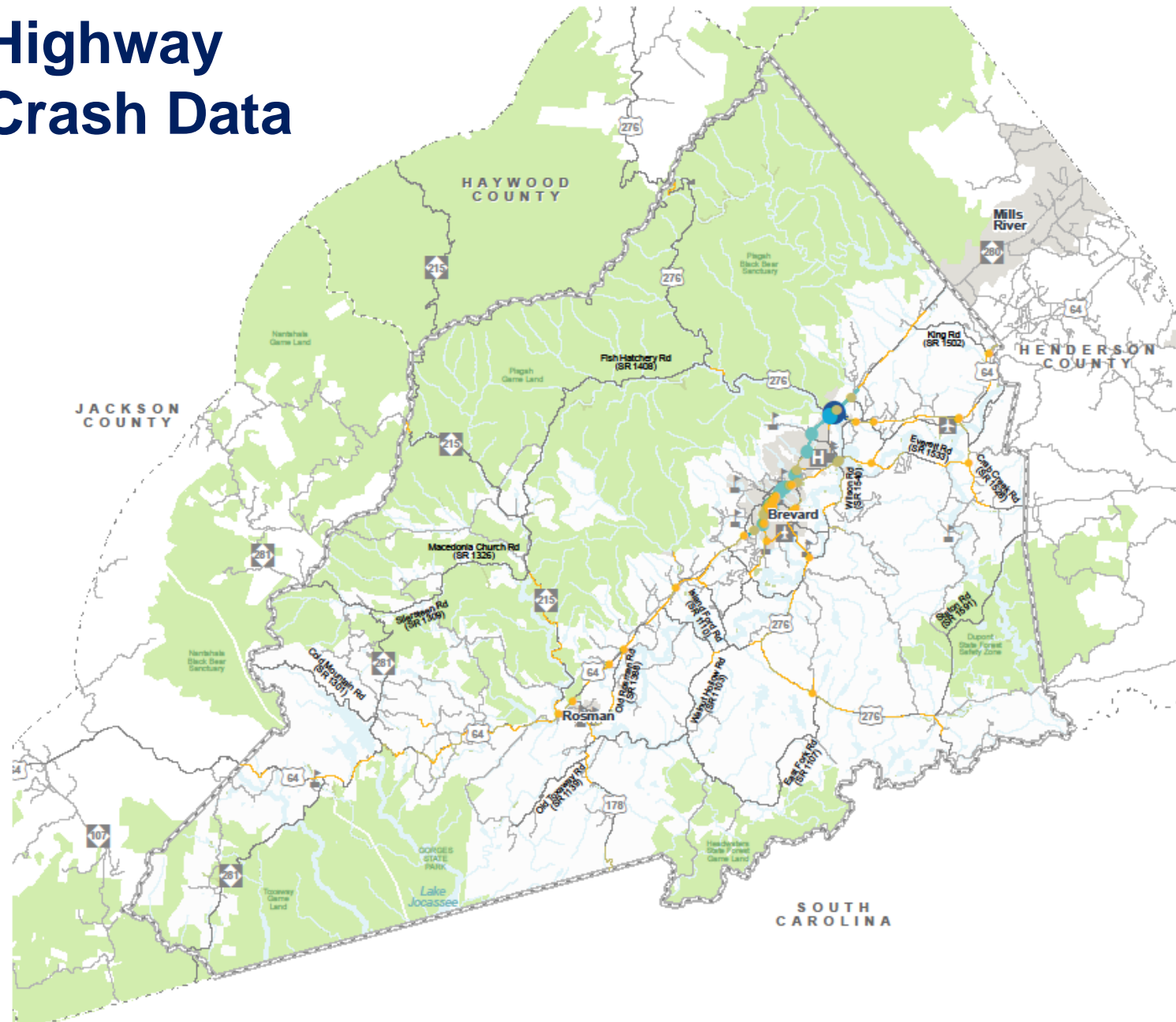


Figure 5  
**HIGH FREQUENCY  
CRASH LOCATIONS**



## TRANSYLVANIA COUNTY

CTP Analysis and Information

High Frequency Crash Features  
(January 2012 - December 2016)

Total Crashes	Intersection	Road Section
5 - 9		
10 - 19		
20 - 29		
31 - 39		
40 - 49		
50 and above		

Other Features

Study Road



Full report at:  
<https://tinyurl.com/y5wy3fe3>

0 1 2 4 6 8 Miles

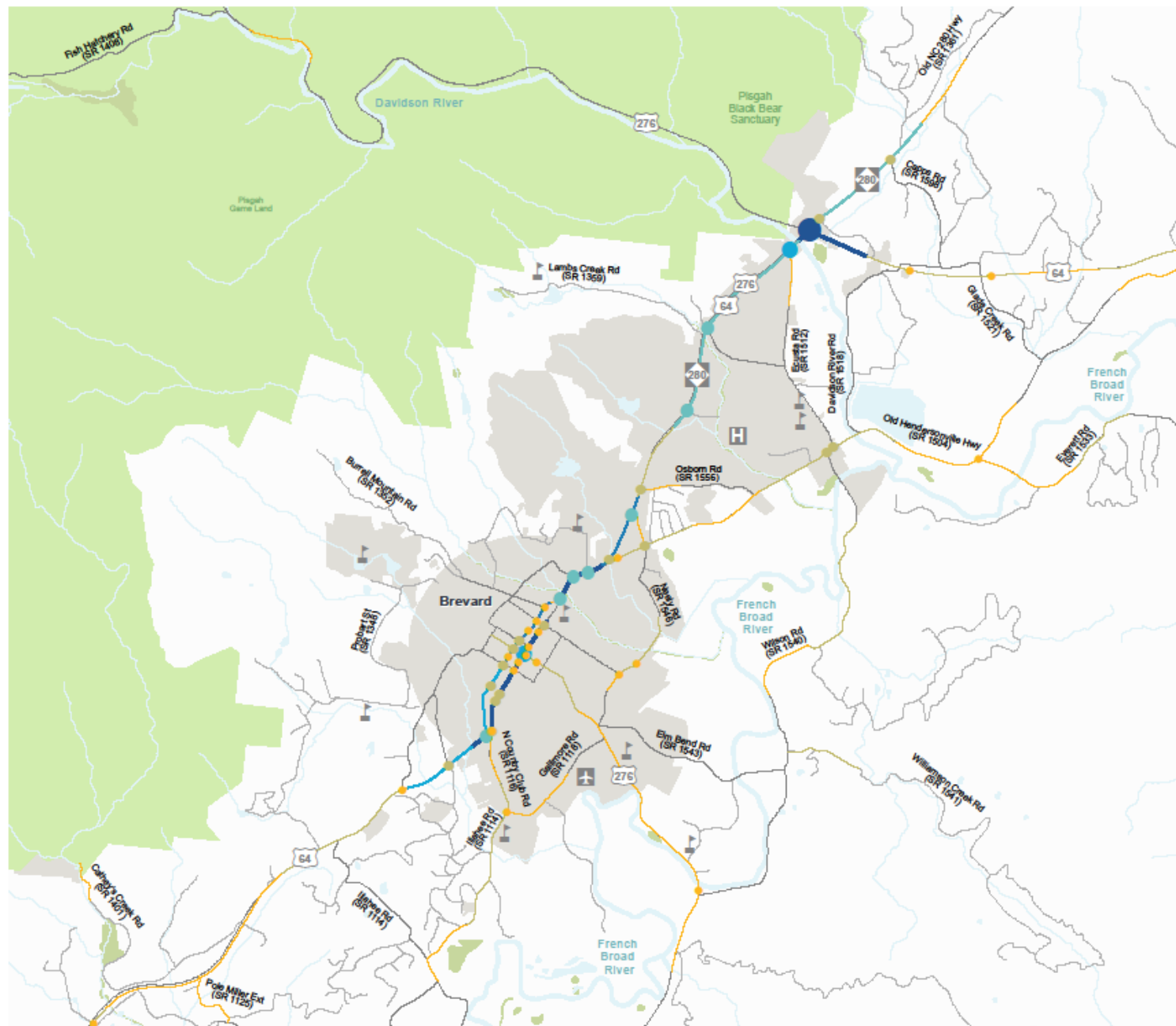
Sheet 2 of 4

Base map date: March 18, 2018

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**DRAFT WORKING MAP**  
Plan Date: May 11, 2019



### Figure 5 HIGH FREQUENCY CRASH LOCATIONS



TRANSYLVANIA  
COUNTY

### CTP Analysis and Information

### High Frequency Crash Features

( January 2012 - December 2016 )

### High Frequency Crash Features

( January 2012 - December 2016 )

Legend for the bubble chart:

- Intersection:** (January 2012 - December 2016)
- Road Section:**

Crash Count Range	Intersection Color	Road Section Color
5 - 9	Orange	Orange
10 - 19	Yellow	Yellow
20 - 29	Light Green	Light Green
31 - 39	Teal	Teal
40 - 49	Dark Teal	Dark Teal
50 and above	Dark Blue	Dark Blue

### Other Features

Study Road



Full report at:  
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Sheet 2 of 4

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DRAFT WORKING MAP  
Plan Date: May 12, 2019

# Pedestrian Crash Data

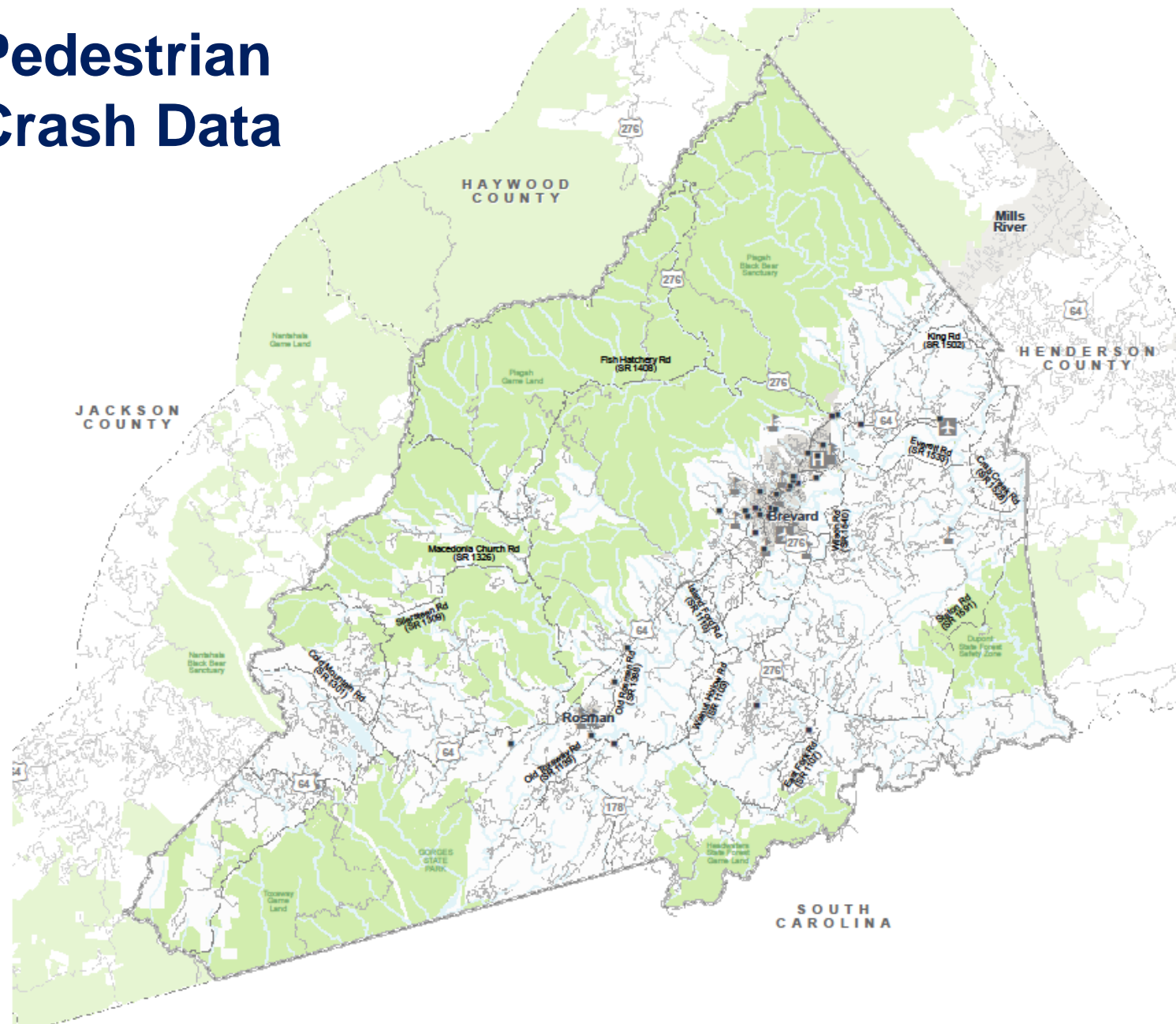


Figure 3  
Pedestrian Analysis



## TRANSYLVANIA COUNTY

CTP Analysis and Information

### Pedestrian Features

- Sidewalk —
- Multi-Use Path —
- Common Roadway —
- Bicycle and Pedestrian Bridge ○

### Other Features

- Pedestrian Crash Location
- Destination
- Study Road



Full report at:  
<https://tinyurl.com/y5wy3fe3>



Sheet 2 of 5

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DRAFT WORKING MAP  
Plan Date: May 12, 2019



# Bicycle Crash Data

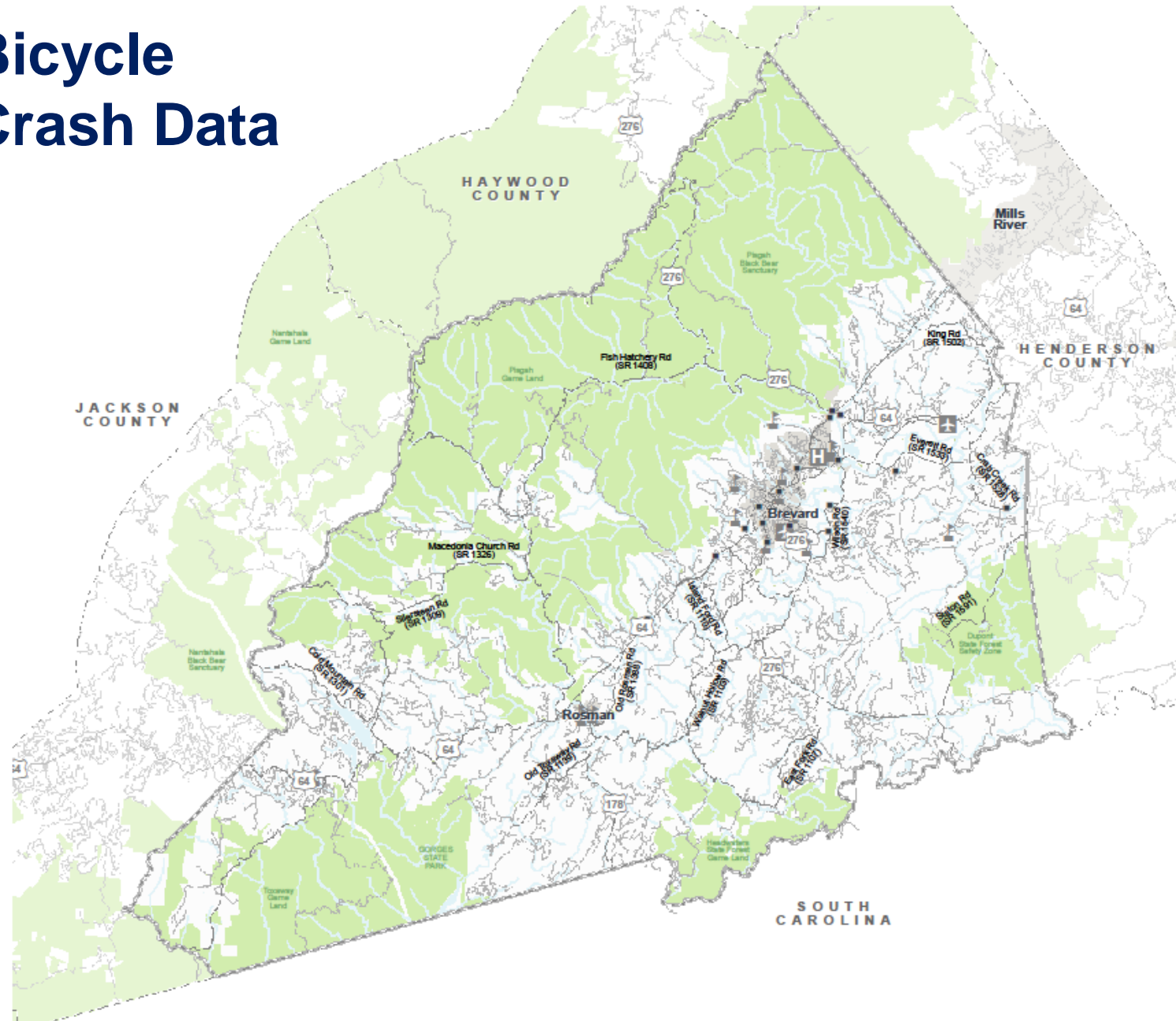


Figure 3  
Bicycle Analysis



## TRANSYLVANIA COUNTY

CTP Analysis and Information

### Bicycle Features

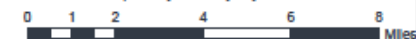
- Bicycle Lane —
- Bicycle Route —
- Multi-Use Path —
- Common Roadway —
- Bicycle and Pedestrian Bridge ○

### Other Features

- Bicycle Crash Location
- Destination
- Study Road



Full report at:  
<https://tinyurl.com/y5wy3fe3>



Sheet 1 of 5

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**DRAFT WORKING MAP**  
Plan Date: May 12, 2019

# Severe Crash Locations

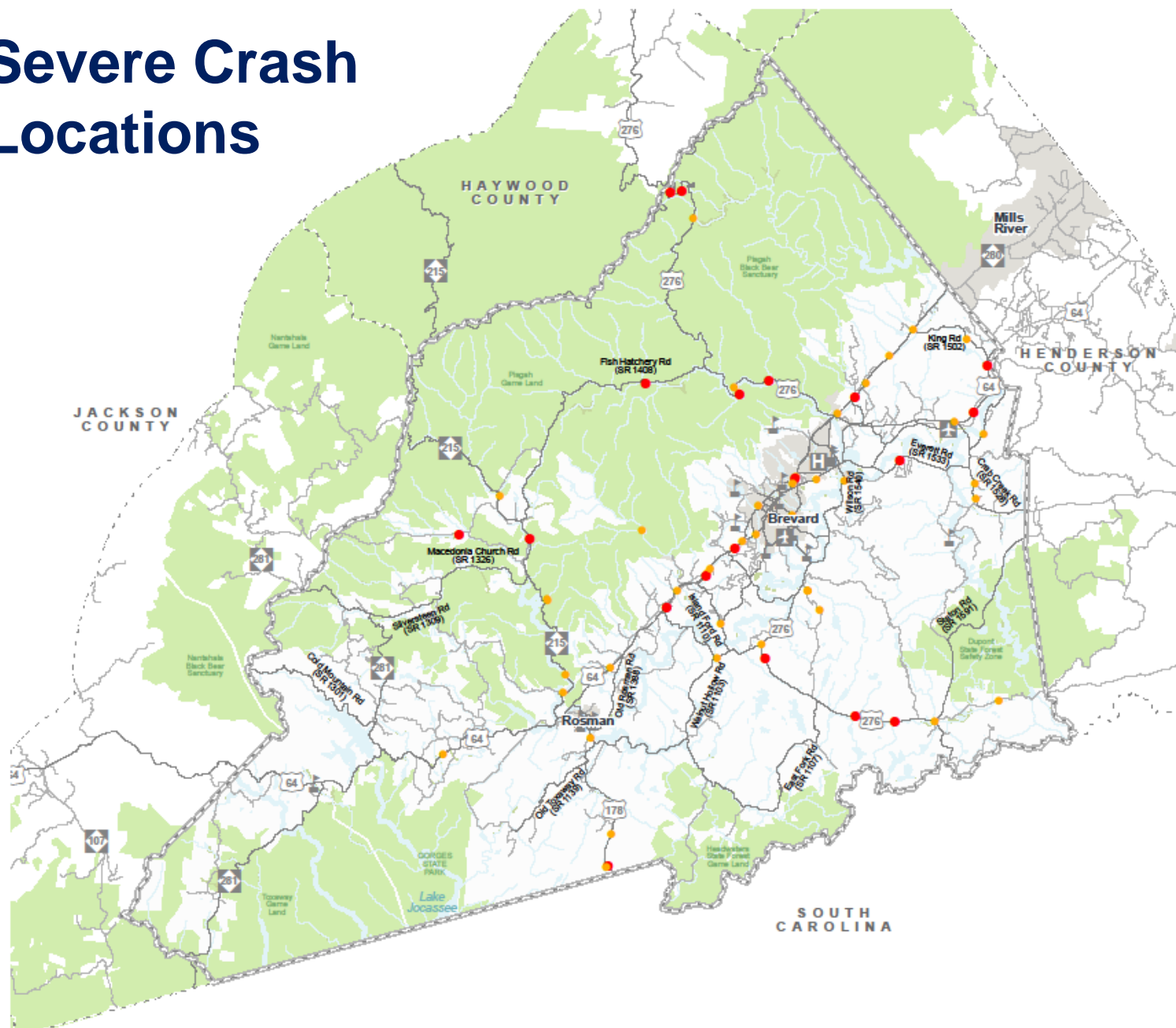


Figure 5  
**SEVERE CRASH  
LOCATIONS**



## TRANSYLVANIA COUNTY

CTP Analysis and Information

Severe and Fatal Crash Features  
(January 2013 - December 2017)

- A (Severe Crash)
- K (Fatal Crash)

Other Features

— Study Road



Full report at:  
<https://tinyurl.com/y5wy3fe3>



Sheet 2 of 4

Base map date: March 18, 2018

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**DRAFT WORKING MAP**  
Plan Date: June 05, 2019

# 2017 Volume/ Capacity

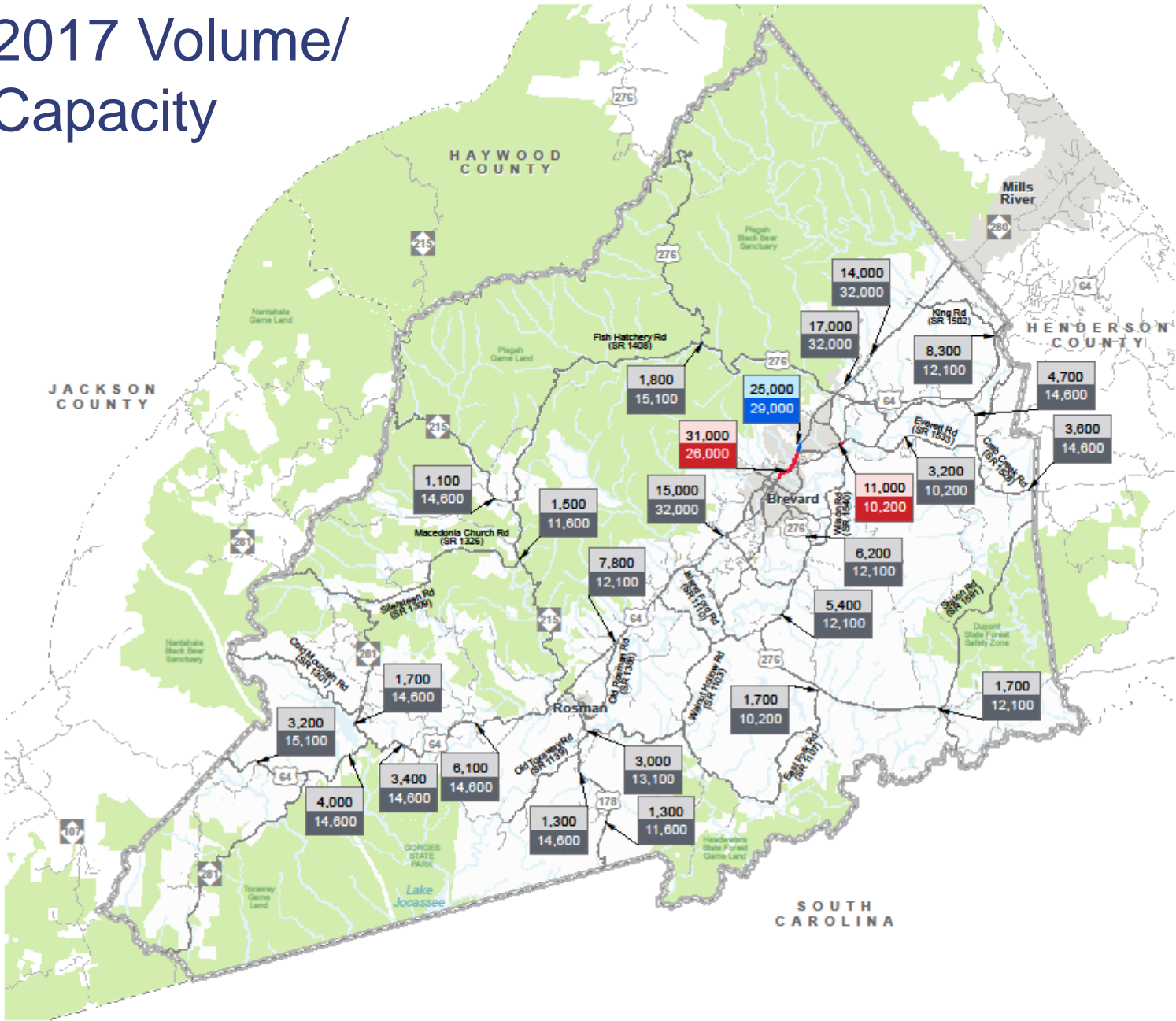


Figure 2  
**2017 VOLUME AND  
CAPACITY DEFICIENCIES**



## TRANSLYVANIA COUNTY

CTP Analysis and Information  
Volume and Capacity Ratio Features  
(Base Year 2017)

- 2017 Volume Under Capacity  
2017 Capacity (0-0.79)
- 2017 Volume Near Capacity  
2017 Capacity (0.80-0.99)
- 2017 Volume Over Capacity  
2017 Capacity (1.00+)



Full report at:  
<https://tinyurl.com/y5wy3fe3>



Sheet 1 of 2

Base map date: March 18, 2018

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**DRAFT WORKING MAP**  
Plan Date: May 12, 2019



## 2045 Volume/ Capacity

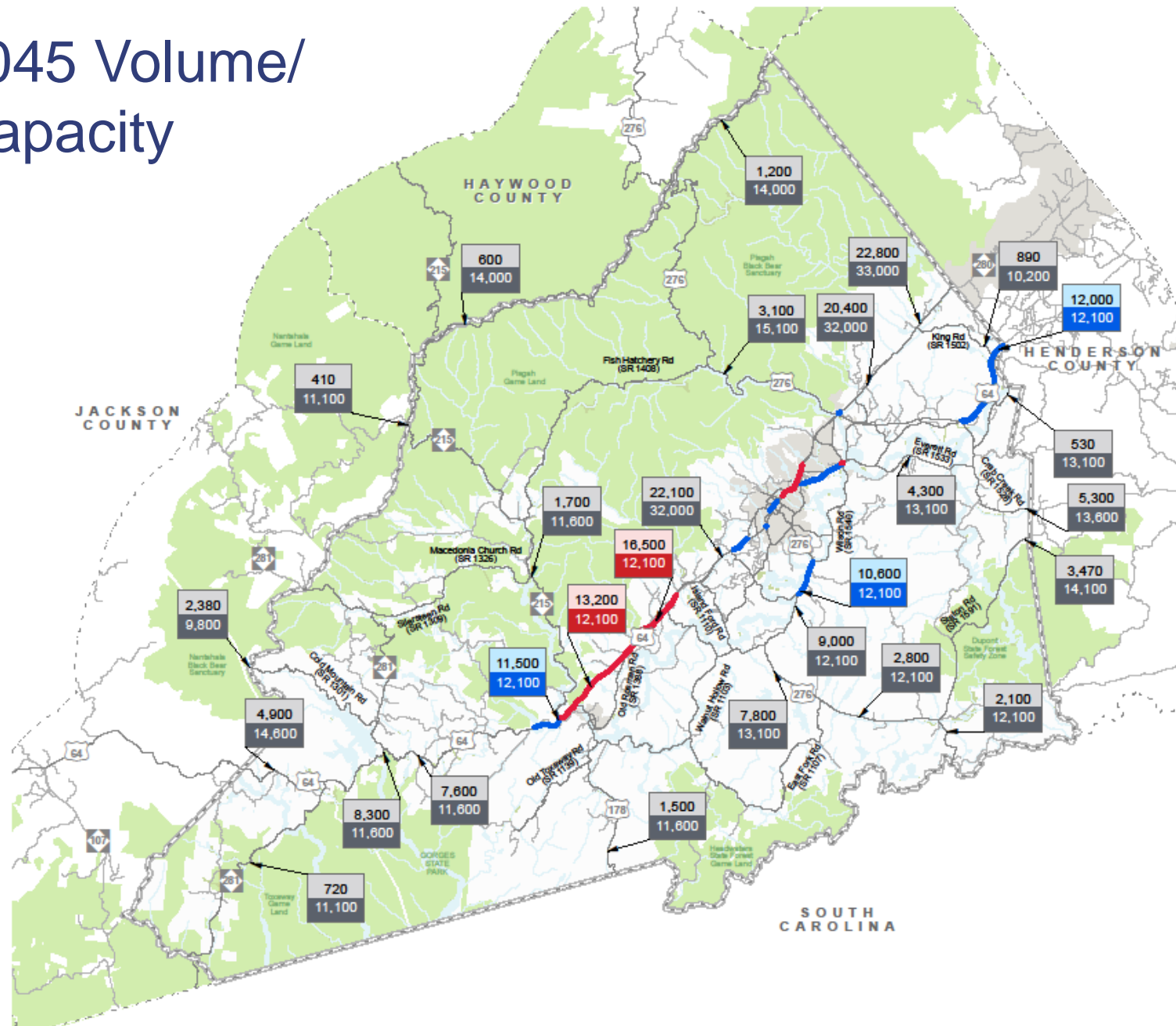


Figure 2  
**2045 VOLUME AND CAPACITY DEFICIENCIES**



TRANSYLVANIA  
COUNTY

### CTP Analysis and Information

### Volume and Capacity Ratio Features ( Future Year 2045 )

2045 Volume	Under Capacity (0-0.79)
2045 Capacity	
2045 Volume	Near Capacity (0.80-0.99)
2045 Capacity	
2045 Volume	Over Capacity (1.00+)
2045 Capacity	



Full report at:  
<https://tinyurl.com/y5wy3fe3>



Sheet 2 of 2

Base map date: March 18, 2018

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DRAFT WORKING MAP  
Plan Date: October 04, 2019

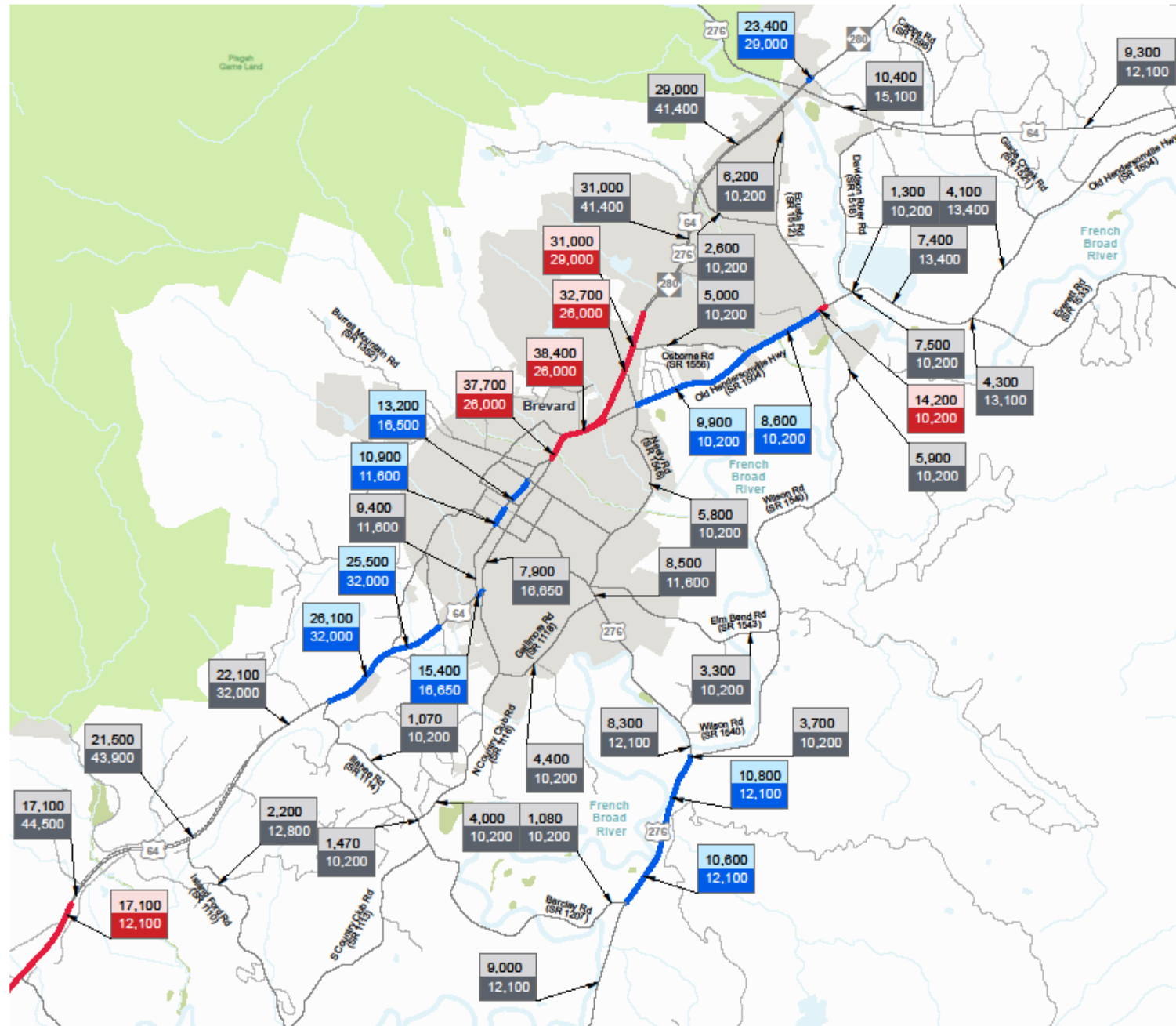


Figure 2  
2045 VOLUME AND  
CAPACITY DEFICIENCIES



## TRANSYLVANIA COUNTY

CTP Analysis and Information

Volume and Capacity Ratio Features  
(Future Year 2045)

2045 Volume	Under Capacity
2045 Capacity	(0-0.79)
2045 Volume	Near Capacity
2045 Capacity	(0.80-0.99)
2045 Volume	Over Capacity
2045 Capacity	(1.00+)



Full report at:  
<https://tinyurl.com/y5wy3fe3>

0 0.25 0.5 1 1.5 2 Miles

Sheet 2 of 2

Base map date: March 18, 2018

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Plan Date: October 04, 2019

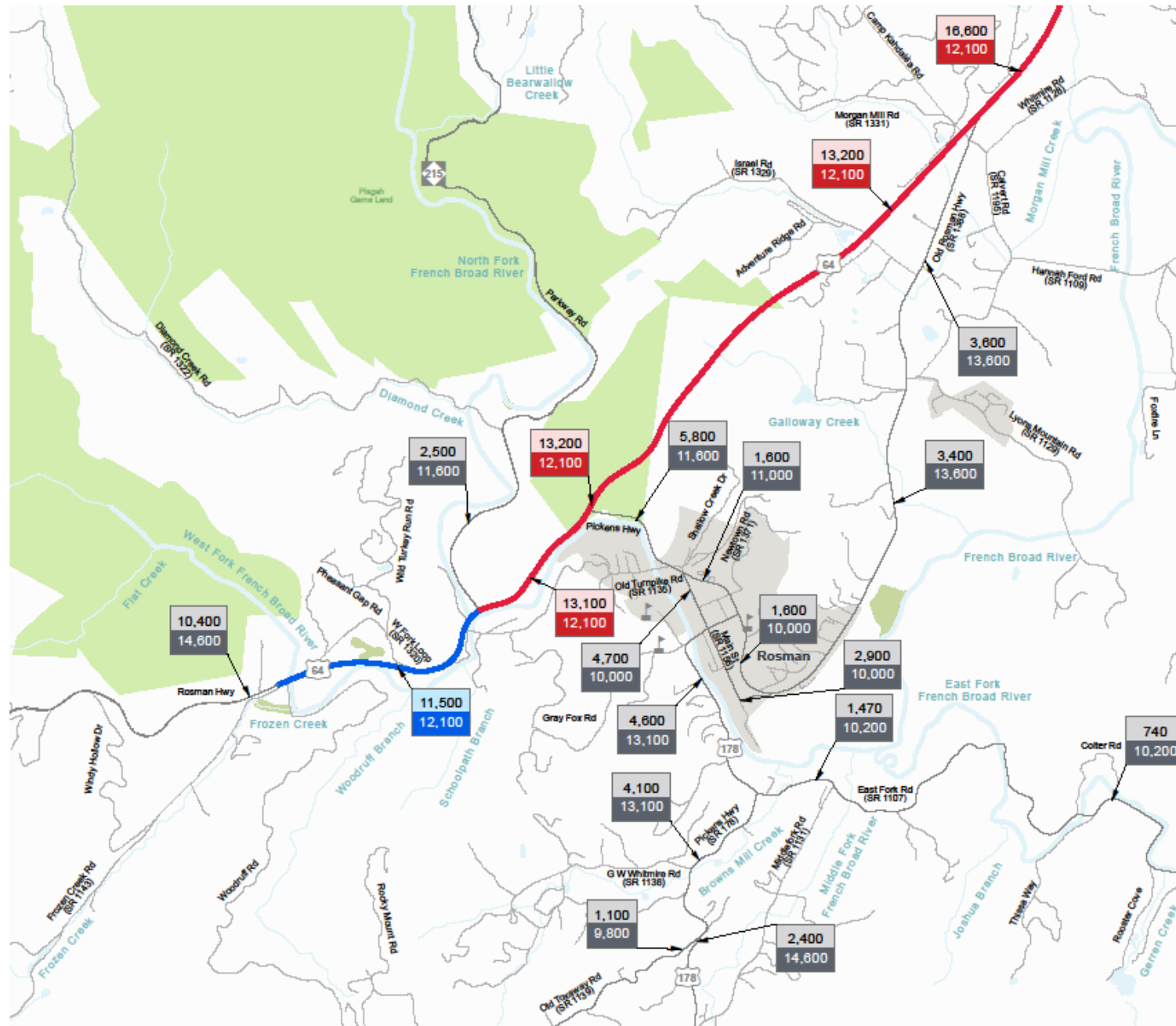


Figure 2  
2045 VOLUME AND  
CAPACITY DEFICIENCIES



## TRANSYLVANIA COUNTY

CTP Analysis and Information

Volume and Capacity Ratio Features  
(Future Year 2045)

2045 Volume	Under Capacity
2045 Capacity	(0-0.79)
2045 Volume	Near Capacity
2045 Capacity	(0.80-0.99)
2045 Volume	Over Capacity
2045 Capacity	(1.00+)



Full report at:  
<https://tinyurl.com/y5wy3fe3>

0 0.25 0.5 0.75 1 Miles

Sheet 2 of 2

Base map date: March 18, 2018

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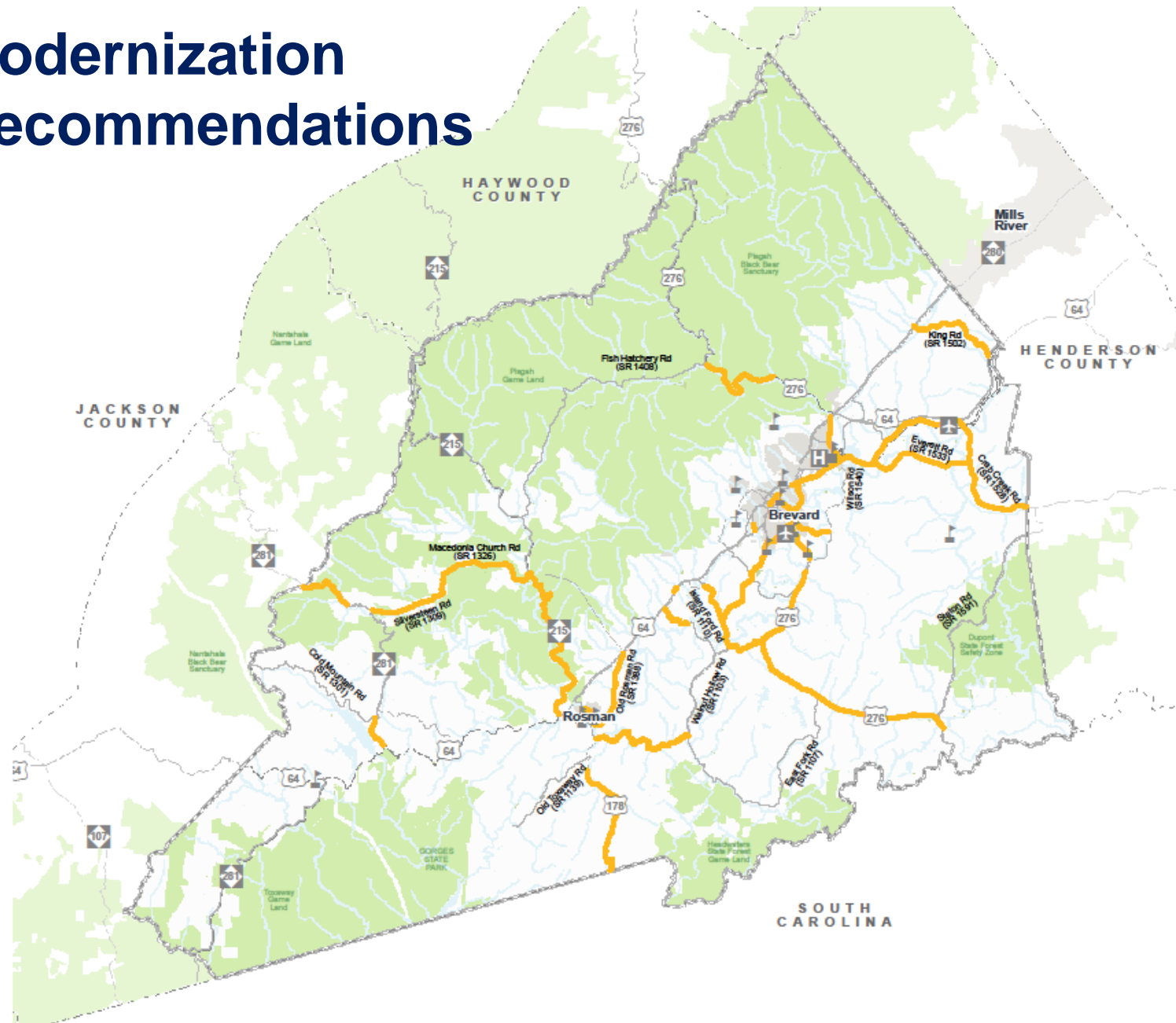
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DRAFT WORKING MAP  
Plan Date: October 06, 2019


# Modernization Table

FUNCTIONAL CLASSIFICATION	US & NC Routes (Minor Arterial or Collector)	Other Collectors	Routes that are not functionally Classified
Less than 2,000 vpd	10 feet	10 feet	9 feet
2,000 to 5,000 vpd	12 feet	11 feet	10 feet
Over 5,000 vpd	12 feet	12 feet	--

# Modernization Recommendations




**HIGHWAY RECOMMENDATIONS**  
 Proposals that address identified needs through 2045


  
**TRANSYLVANIA COUNTY**  
 Comprehensive Transportation Plan


**Highway Features**  
 Proposal ID # Improve New Location

Congestion / Mobility (e.g., add lanes)	<span style="color: red;">■</span>	<span style="color: red;">—</span>	<span style="color: red;">---</span>
Access Management / Operations (e.g., add median)	<span style="color: blue;">■</span>	<span style="color: blue;">—</span>	<span style="color: blue;">---</span>
Modernization (e.g., widen lanes, add turn lanes)	<span style="color: orange;">■</span>	<span style="color: orange;">—</span>	<span style="color: orange;">---</span>
Other (e.g., safety, economic development)	<span style="color: cyan;">■</span>	<span style="color: cyan;">—</span>	<span style="color: cyan;">---</span>
Interchange			
Bridge / Overpass			
Intersection			

**Other Features**  
— Studied Roads



  
 Full report at:  
<http://tinyurl.com/y5wy3fe3>



0 1 2 4 6 8 Miles

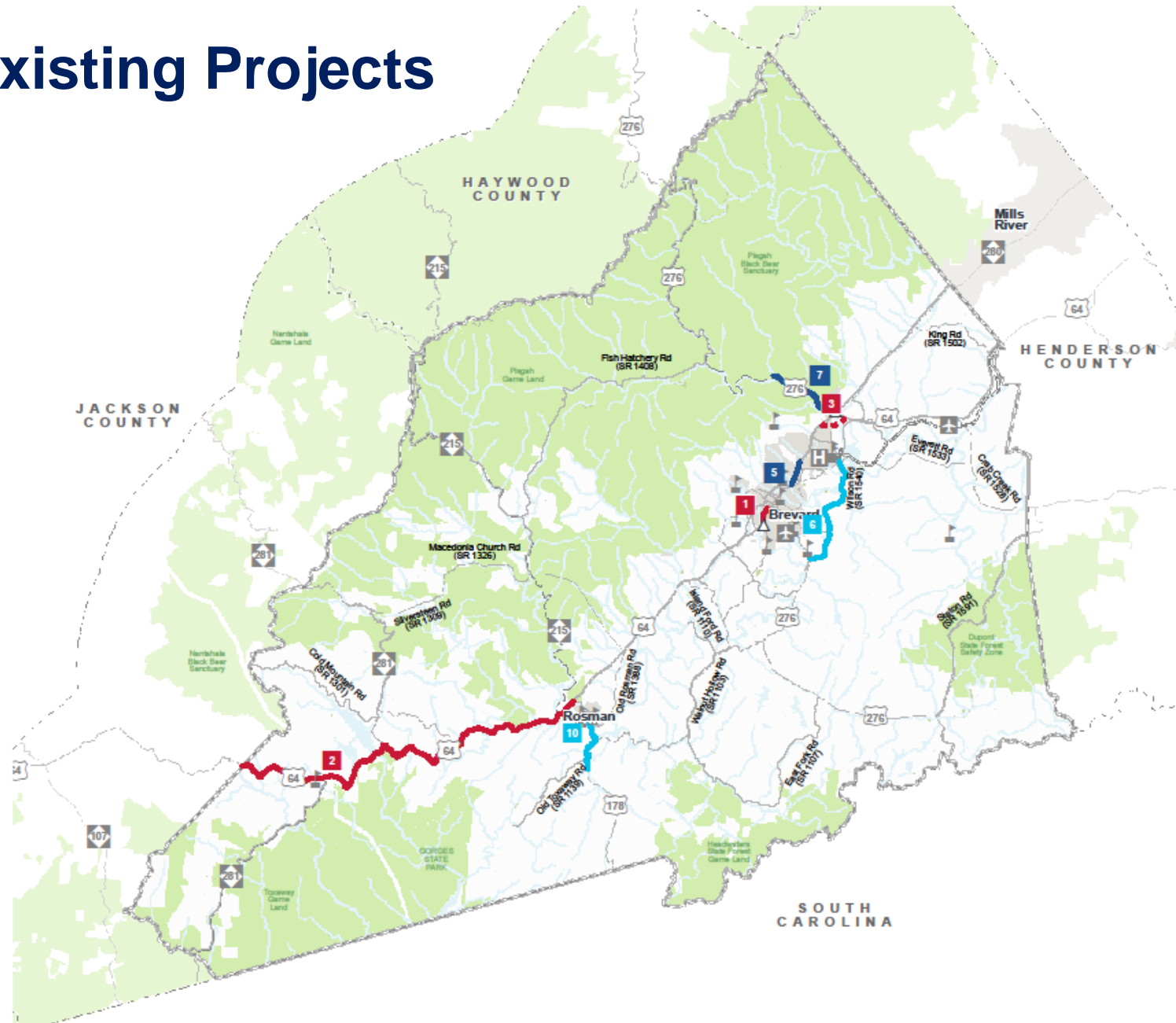
**Sheet 2 of 4**  
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**DRAFT WORKING MAP**  
 Plan Date: June 03, 2019



# Existing Projects



## HIGHWAY RECOMMENDATIONS

Proposals that address identified needs through 2045



## TRANSYLVANIA COUNTY

### Comprehensive Transportation Plan

#### Highway Features

Proposal ID # Improve New Location

Congestion / Mobility (e.g., add lanes)		
Access Management / Operations (e.g., add median)		
Modernization (e.g., widen lanes, add turn lanes)		
Other (e.g., safety, economic development)		
Interchange		
Bridge / Overpass		
Intersection		

#### Other Features

Studied Roads



Full report at:  
<http://tinyurl.com/y5wy3fe3>



Sheet 2 of 4

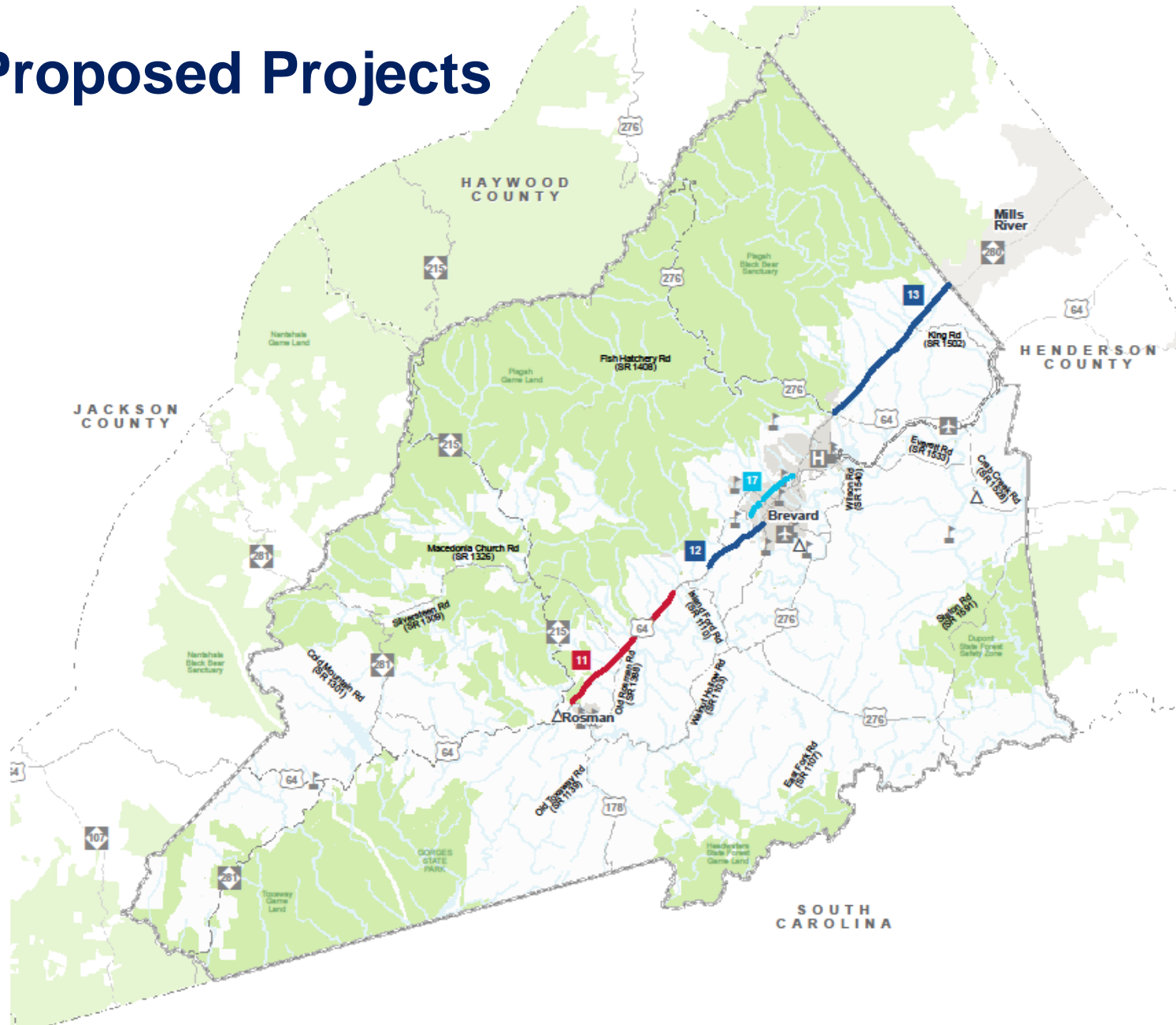
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**DRAFT WORKING MAP**  
Plan Date: June 03, 2019

# Proposed Projects



## HIGHWAY RECOMMENDATIONS

Proposals that address identified needs through 2045



## TRANSYLVANIA COUNTY

### Comprehensive Transportation Plan

#### Highway Features

Proposal ID # Improve New Location

Congestion / Mobility (e.g., add lanes)		
Access Management / Operations (e.g., add median)		
Modernization (e.g., widen lanes, add turn lanes)		
Other (e.g., safety, economic development)		
Interchange		
Bridge / Overpass		
Intersection		

#### Other Features

Studied Roads



Full report at:  
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Sheet 2 of 4

Base map date: March 18, 2018

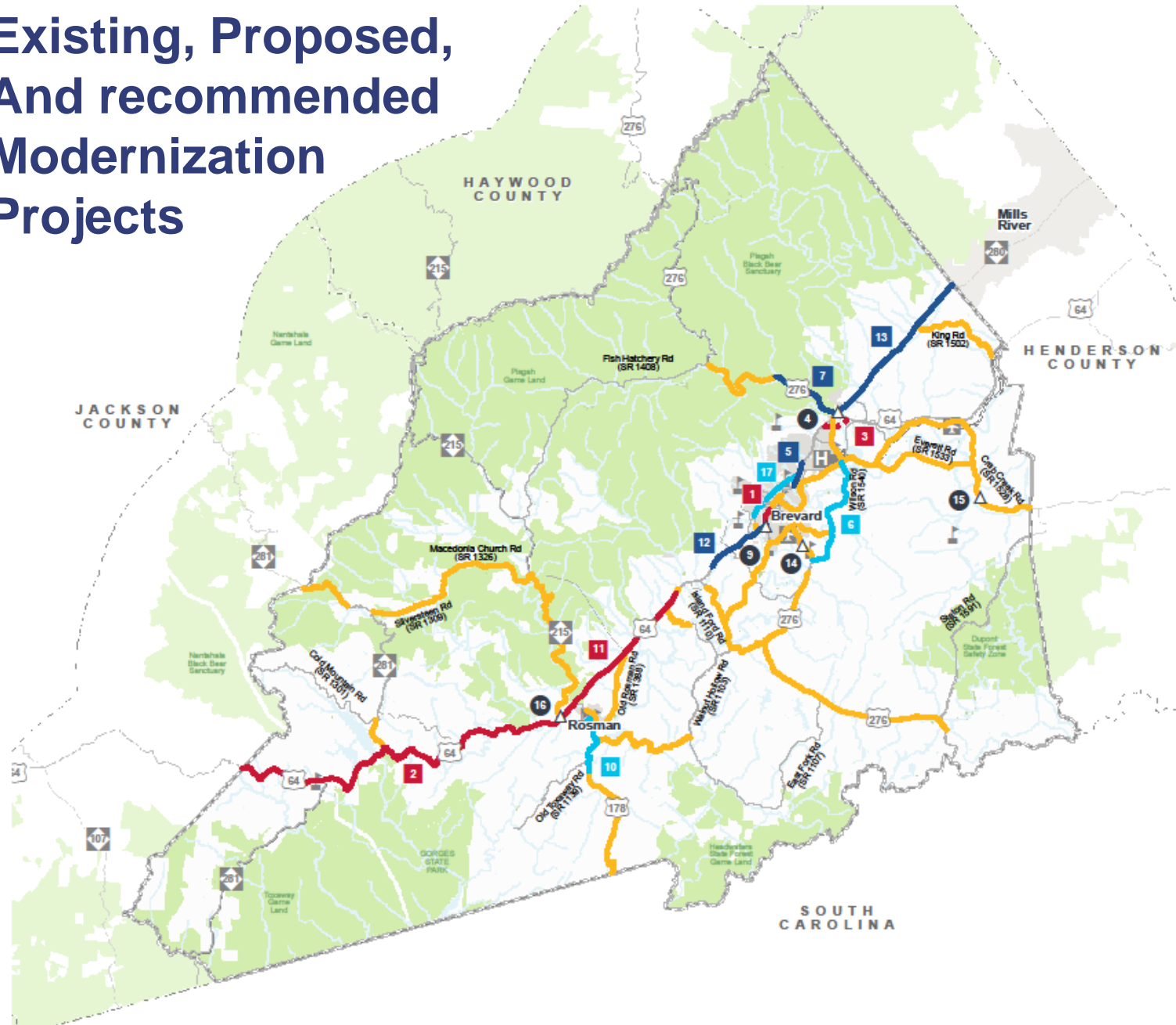
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**DRAFT WORKING MAP**  
Plan Date: June 03, 2019



# Existing, Proposed, And recommended Modernization Projects



## HIGHWAY RECOMMENDATIONS

Proposals that address identified needs through 2045



## TRANSYLVANIA COUNTY

### Comprehensive Transportation Plan

#### Highway Features

Proposal ID # Improve New Location

Congestion / Mobility (e.g., add lanes)		
Access Management / Operations (e.g., add median)		
Modernization (e.g., widen lanes, add turn lanes)		
Other (e.g., safety, economic development)		
Interchange		
Bridge / Overpass		
Intersection		

#### Other Features

Studied Roads



Full report at:  
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0 1 2 4 6 8 Miles

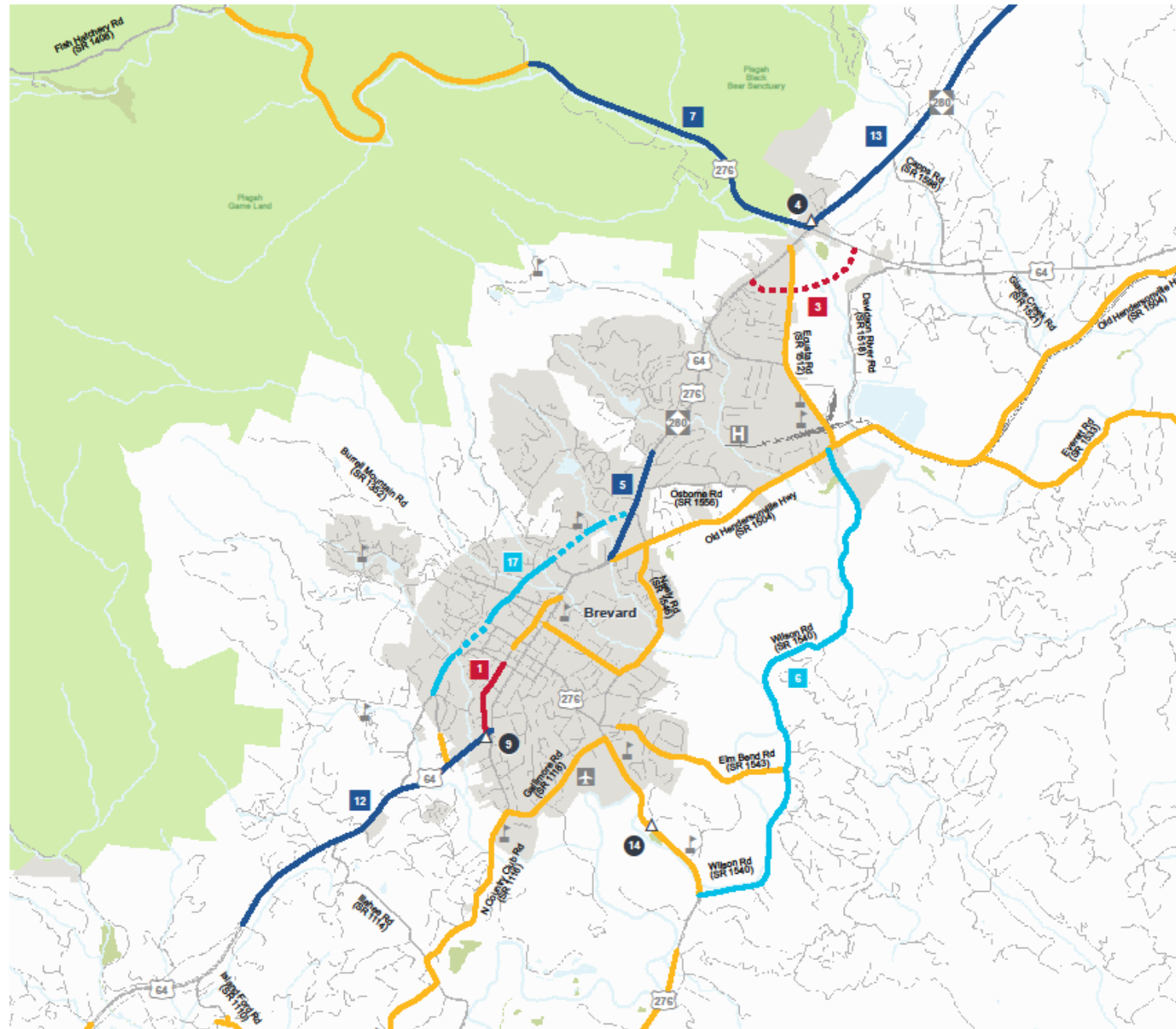
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DRAFT WORKING MAP  
Plan Date: October 07, 2019



# HIGHWAY RECOMMENDATIONS

Proposals that address identified needs through 2045



## TRANSLYVANIA COUNTY

### Comprehensive Transportation Plan

#### Highway Features

Proposal ID # Improve New Location

Congestion / Mobility (e.g., add lanes)		
Access Management / Operations (e.g., add median)		
Modernization (e.g., widen lanes, add turn lanes)		
Other (e.g., safety, economic development)		
Interchange		
Bridge / Overpass		
Intersection		

#### Other Features

Studied Roads



Full report at:  
<http://tinyurl.com/ySwy3fe3>



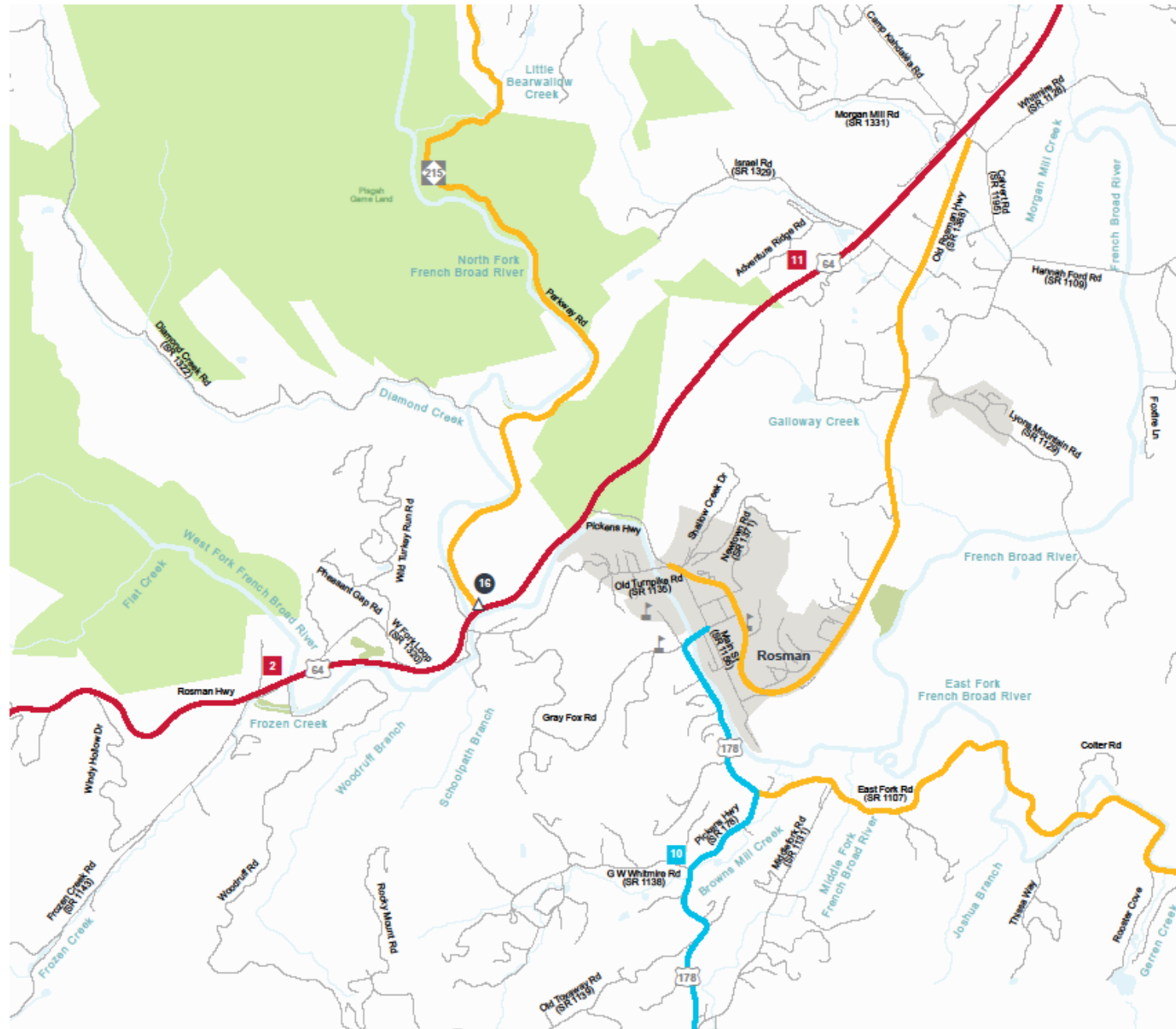
Sheet 2 of 4

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**DRAFT WORKING MAP**  
Plan Date: October 07, 2019



# HIGHWAY RECOMMENDATIONS

Proposals that address identified needs through 2045



## TRANSYLVANIA COUNTY

### Comprehensive Transportation Plan

#### Highway Features

Proposal ID # Improve New Location

Congestion / Mobility (e.g., add lanes)		
Access Management / Operations (e.g., add median)		
Modernization (e.g., widen lanes, add turn lanes)		
Other (e.g., safety, economic development)		
Interchange		
Bridge / Overpass		
Intersection		

#### Other Features

Studied Roads



Full report at:  
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0 0.25 0.5 0.75 1 Miles

Sheet 2 of 4

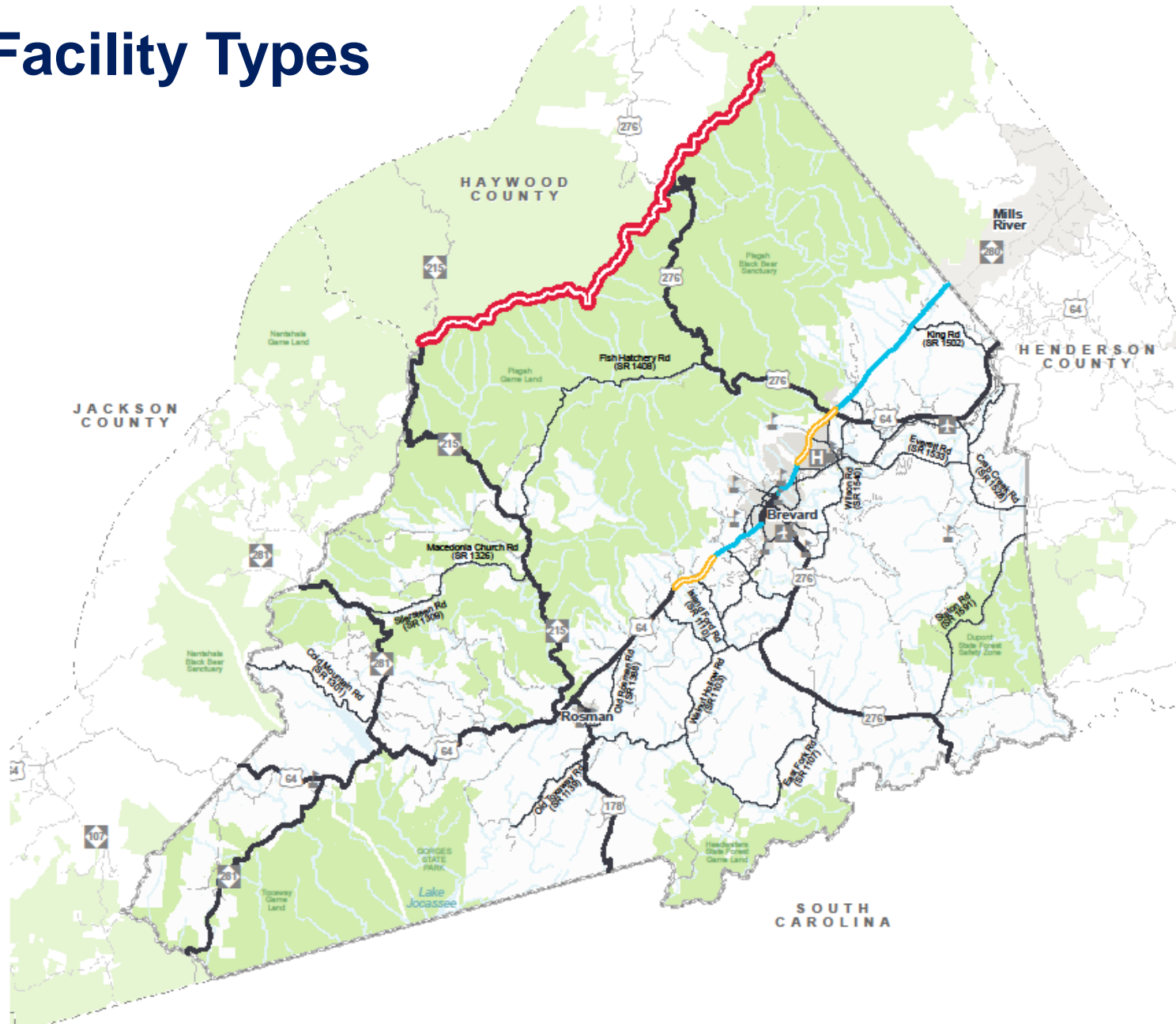
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DRAFT WORKING MAP  
Plan Date: October 07, 2019

# Facility Types



## FACILITY TYPES

Facility classifications for mobility and control of access planning through 2045



## TRANSYLVANIA COUNTY

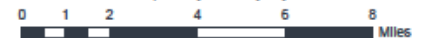
### Comprehensive Transportation Plan

Facility Types and Control of Access  
(Listed in Order of Mobility Function)

	Projected	New Location
Freeway		
Expressway (Multilane Divided)		
Boulevard (Multilane Divided)		
Major Thoroughfare (Multilane Undivided)		
Major Thoroughfare (2 Lane)		
Minor Thoroughfare		
Other Features		
Studied Roads		



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Sheet 1 of 4

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DRAFT WORKING MAP  
Plan Date: May 11, 2019



# Transylvania County Public Transit



April Alm,  
Transylvania County Transportation Coordinator

June 11, 2019

# Transportation

- Transylvania County Transportation provides demand response – door-to-door transportation services for the residents of Transylvania County.

*A demand response system is one where passenger trips are generated by calls from passengers for advanced scheduling and then the transportation system dispatches a vehicle to pick the passengers up and transport them to their destinations.*

- Examples of transport:
  - General Public (Employment, Shopping, Medical Appts, Paying Bills, etc.)
  - Senior Adults to Silvermont and Quebec Community Center Nutrition Sites
  - Vocational Rehabilitation
  - Head Start
  - Dialysis
  - Sharing House Getting Ahead Programs
  - Schenck Job Corp Student Transport
- Transylvania County Transportation has a fleet of seven (7) vehicles, four of which are lift-equipped paratransit vans.

# Transportation

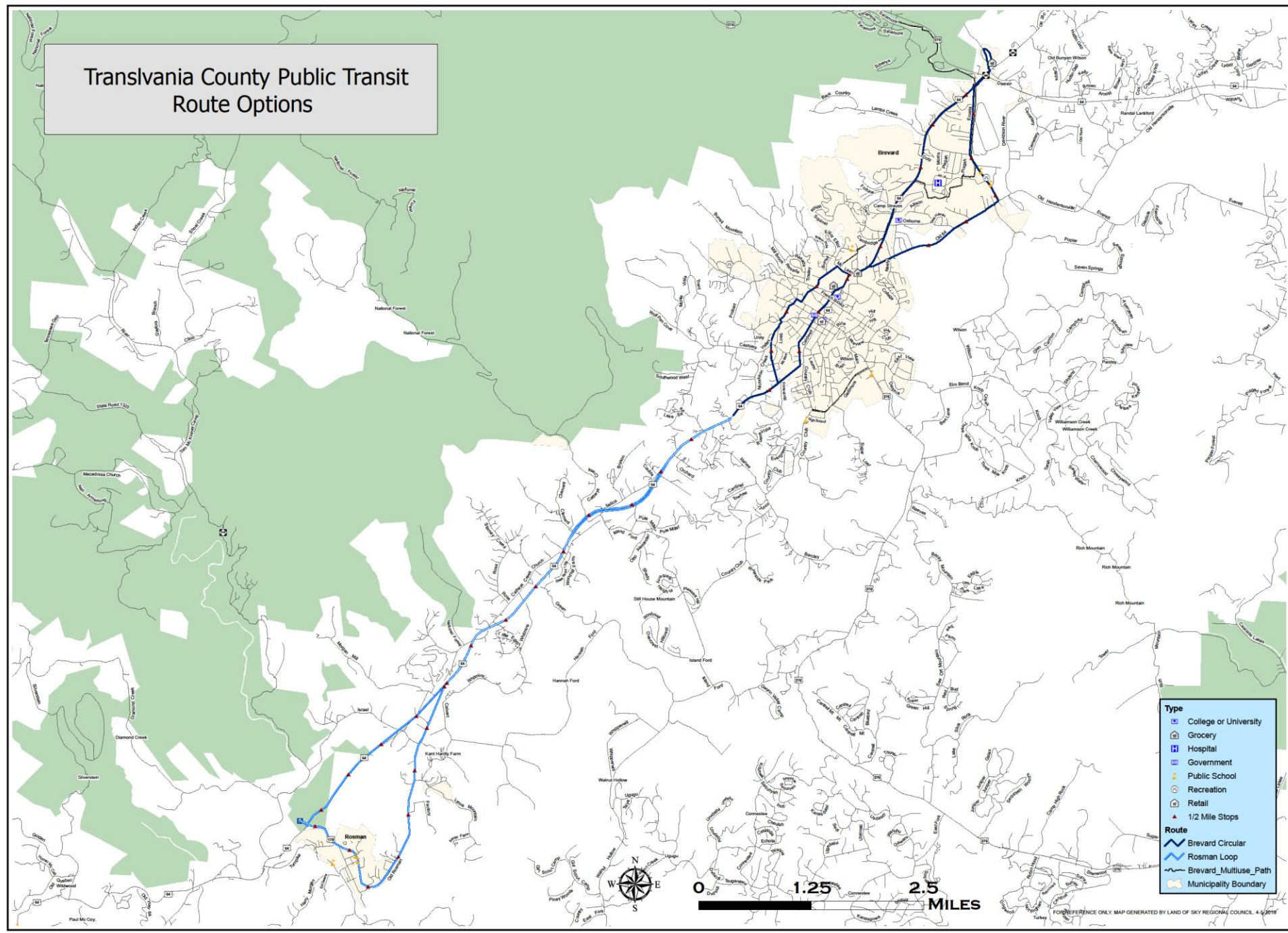
## **FY 2020 GOALS:**

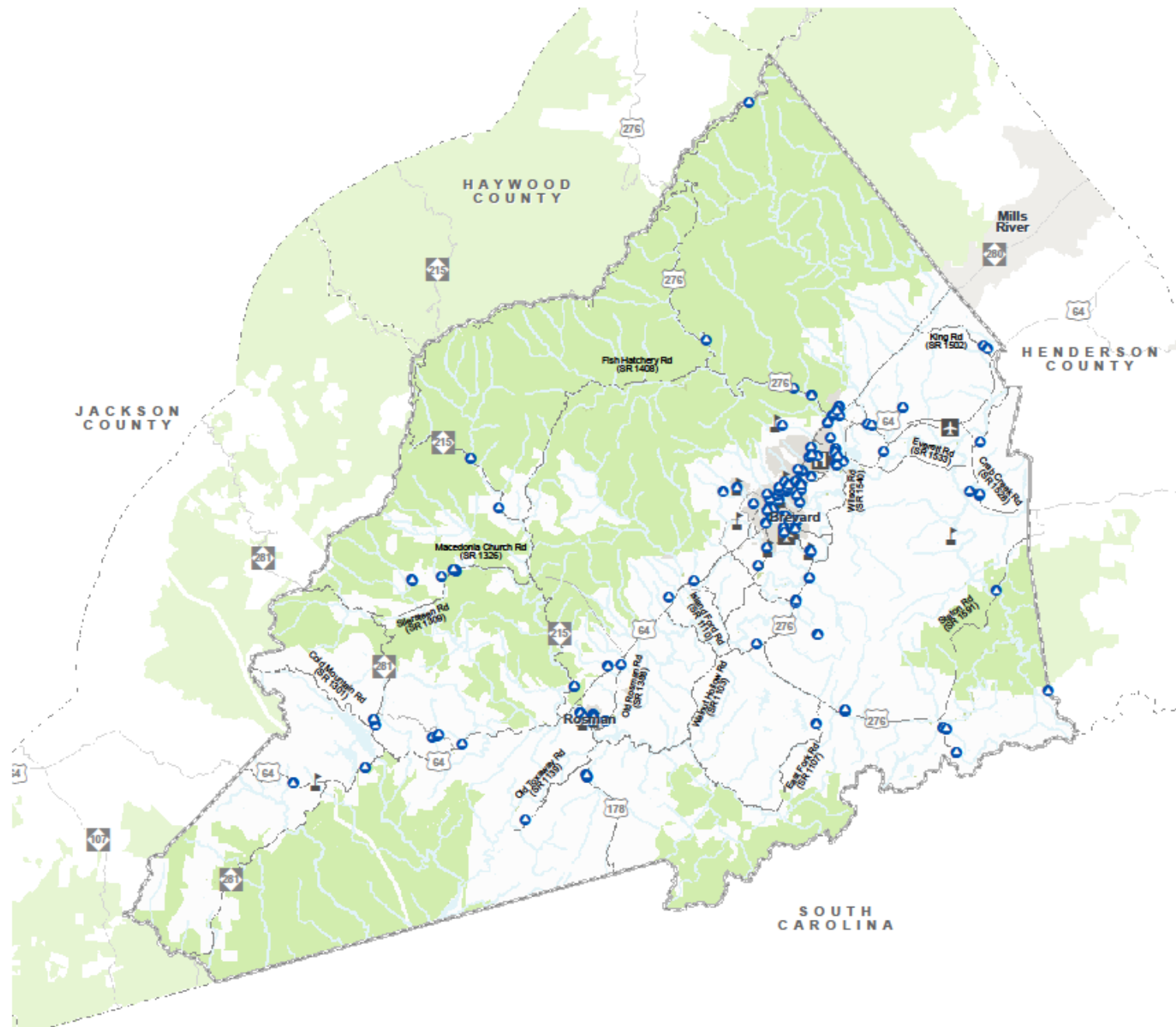
- ❑ Continue preparation of deviated fixed route (stop locations with times, budget analysis and timeline then present to TAB and Board of Commissioners)

*A deviated-fixed route service operates a bus or van along a fixed route and keeps to a timetable, but the bus or van can deviate from the route to go to a specific location, such as a house, child care center or employment site. Once the pick-up or drop-off is made, the vehicle goes back to the place along the route that it left.*



# Transylvania County Public Transit Route Options





### Figure 3 PUBLIC TRANSPORTATION ANALYSIS












TRANSYLVANIA  
COUNTY

### CTP Analysis and Information

### Public Transportation Features

- Urban Fixed Bus Corridor
- Regional Bus Corridor
- Rural Fixed Bus Corridor
- Transit Facility
- Park and Ride Lot
- Amtrak Station
- Intermodal Terminal

- Public Transportation Analysis Features
-  Airport
  -  Seaport
  -  Military Installation
  -  Ferry Route
  -  Destination
  -  Hospital
  -  School
  -  Study Road
  -  On-Demand Service Area



Full report at:  
<http://tinyurl.com/DCHC-CTP>



Sheet 4 of 5

Base map date: March 18, 2018

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DRAFT WORKING MAP  
Plan Date: June 06, 2019

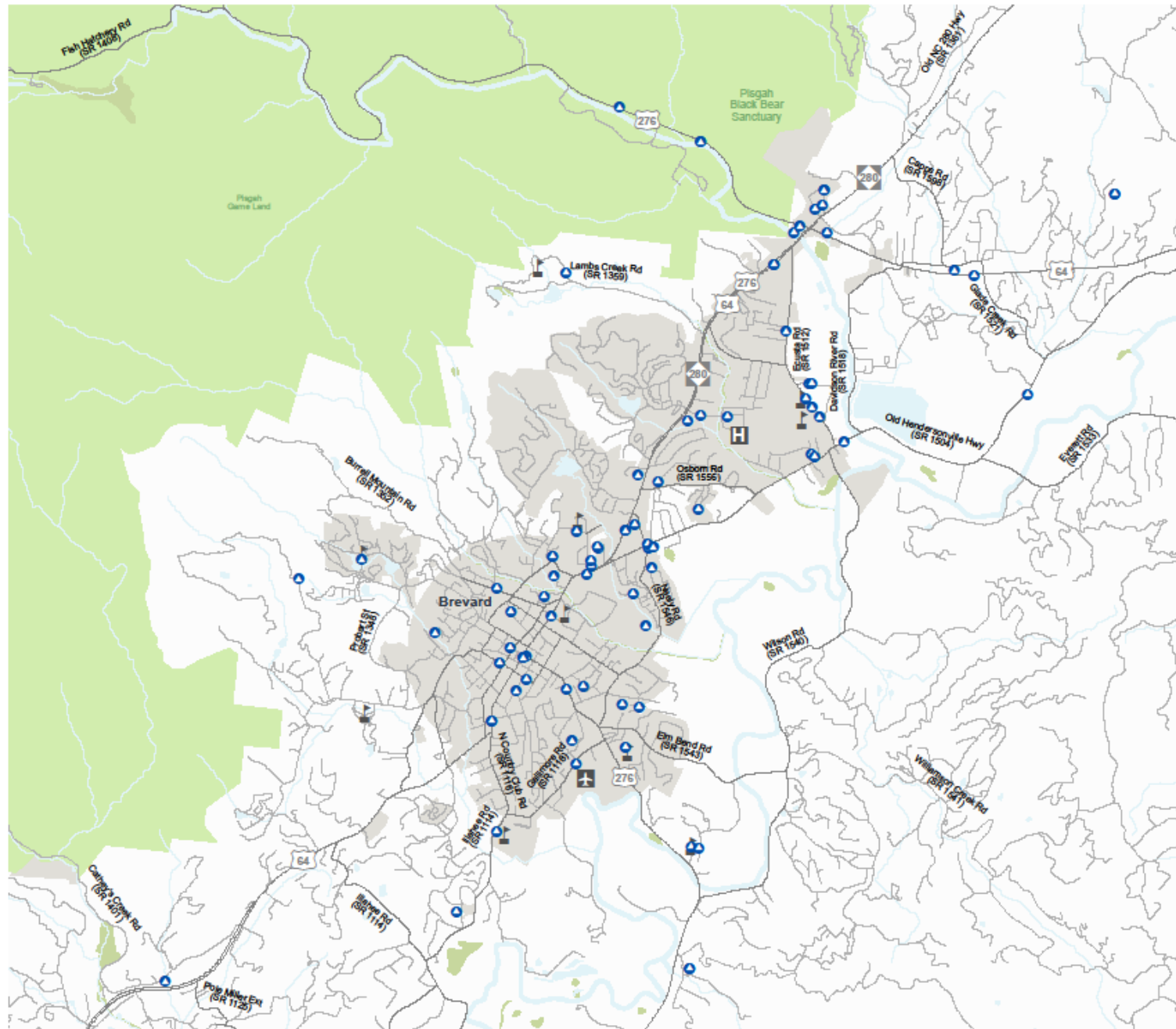


Figure 3  
**PUBLIC TRANSPORTATION ANALYSIS**



## TRANSYLVANIA COUNTY

### CTP Analysis and Information

#### Public Transportation Features

Urban Fixed Bus Corridor

Regional Bus Corridor

Rural Fixed Bus Corridor

Transit Facility

Park and Ride Lot

Amtrak Station

Intermodal Terminal

#### Public Transportation Analysis Features



Airport



Seaport



Military Installation



Ferry Route



On-Demand Service Area

Destination

Hospital

School

Study Road



Full report at:  
<http://tinyurl.com/DCHC-CTP>

0 0.25 0.5 1 1.5 2 Miles

Sheet 4 of 5

Base map date: March 18, 2018

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**DRAFT WORKING MAP**  
Plan Date: June 06, 2019



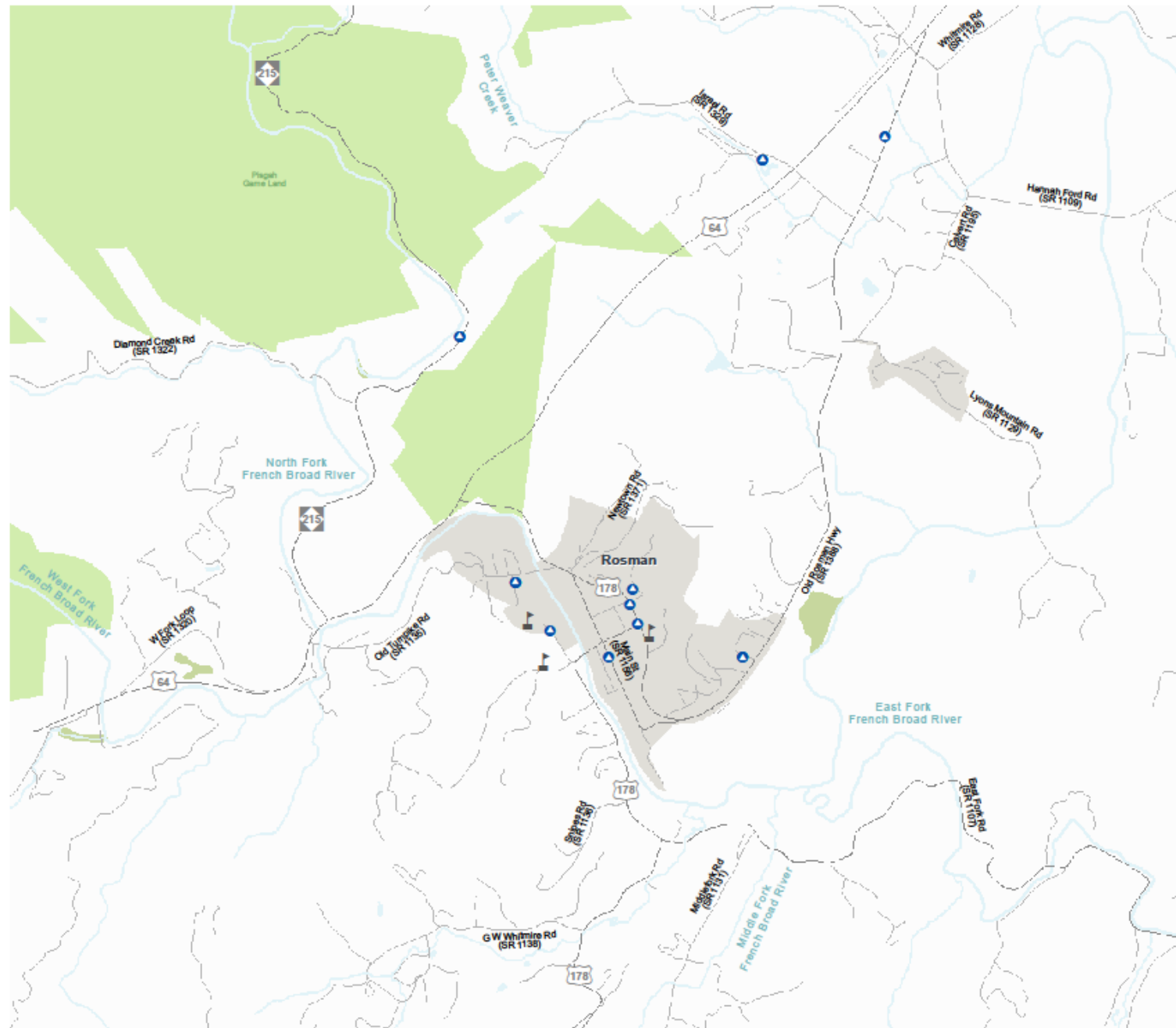


Figure 3  
**PUBLIC TRANSPORTATION  
ANALYSIS**



## TRANSYLVANIA COUNTY

### CTP Analysis and Information

#### Public Transportation Features

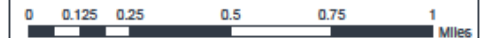
- Urban Fixed Bus Corridor
- Regional Bus Corridor
- Rural Fixed Bus Corridor
- Transit Facility
- Park and Ride Lot
- Amtrak Station
- Intermodal Terminal

#### Public Transportation Analysis Features

- Airport
- Seaport
- Military Installation
- Ferry Route
- On-Demand Service Area
- Destination
- Hospital
- School
- Study Road



Full report at:  
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Sheet 4 of 5

Base map date: March 18, 2018

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**DRAFT WORKING MAP**  
Plan Date: June 06, 2019

# Transportation

## Future Goals:

- ❑ Expand van service in underserved areas of County
  - ❑ Going further into rural areas where van transportation is currently unavailable
  - ❑ Creating grocery store and shopping trips on designated days during the week
- ❑ Connect Van Service with Henderson County and Buncombe County – designated transfer locations
- ❑ Extend hours of service to cover nights and weekends; Initial steps may begin with Saturday service
- ❑ Work with local medical providers and local funding opportunities to help support rural transportation for medical appointments



# Transportation System Resiliency

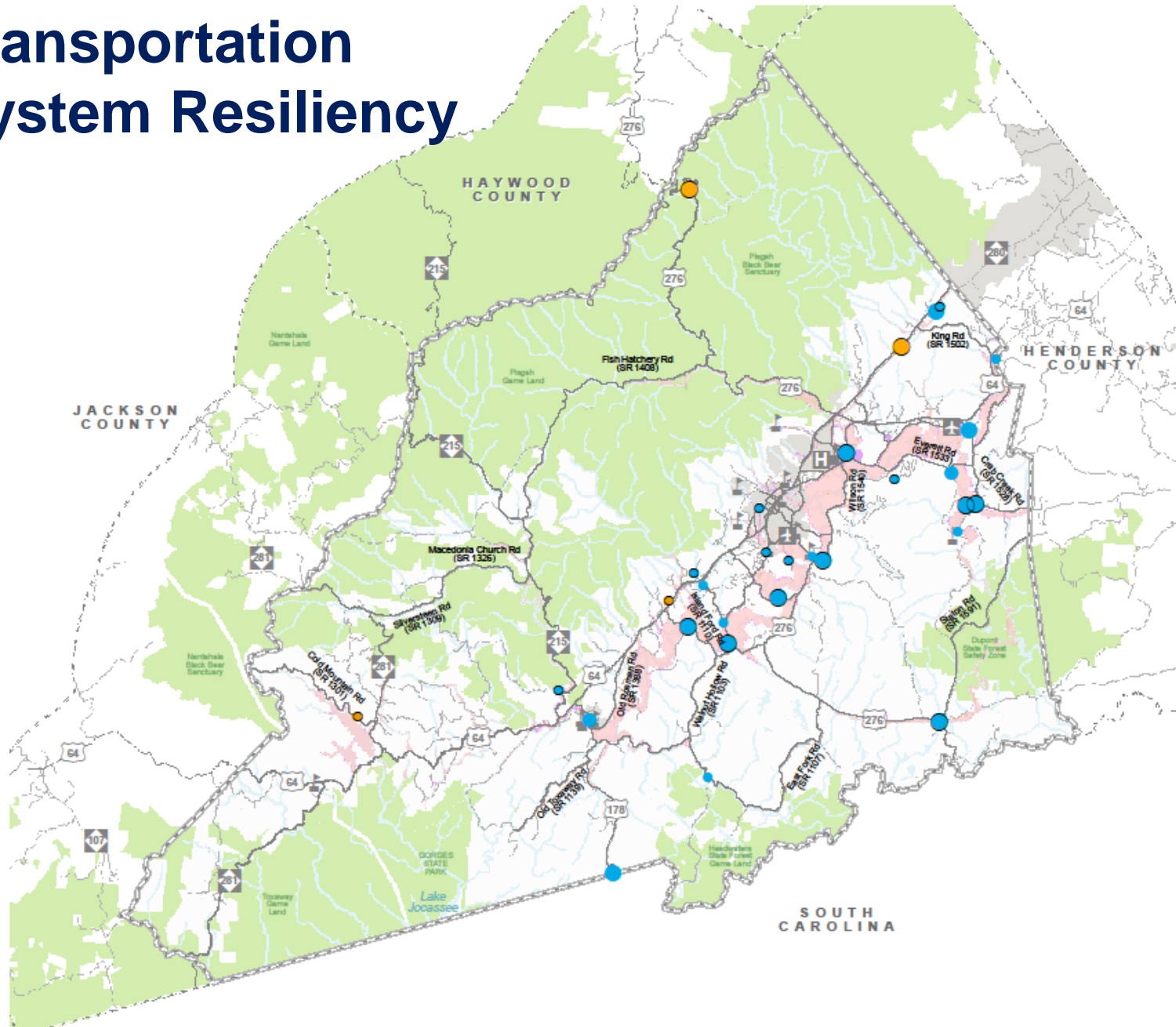


Figure 5  
Resiliency



## TRANSYLVANIA COUNTY

CTP Analysis and Information

- Flood, Reported, Rare
- Flood, Anecdotal, Rare
- Flood, Anecdotal, Heavy Rain
- Flood, Reported, Regularly
- Flood, Anecdotal, Regularly
- Landslide, Reported, Rare
- Landslide, Reported, Regularly
- 500-Year Floodplain
- 100-Year Floodplain

### Other Features

— Study Road



Full report at:  
<https://tinyurl.com/y5wy3fe3>

0 1 2 4 6 8 Miles

Sheet 2 of 4

Base map date: March 18, 2018

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DRAFT WORKING MAP  
Plan Date: October 03, 2019

## Resiliency maps. (Mark-up exercise)

- Large format maps of Resiliency available on tables
- Review maps and identify any gaps or additional areas of concern
- Draw in additional Resiliency concerns (flooding/land and rock slides other resiliency concerns)

[illegible]

### CTP Analysis and Information

2045 Volume	Under Capacity
2045 Capacity	(0-0.79)

2045 Volume	Near Capacity (0.80-0.99)
2045 Capacity	

2045 Volume	Over Capacity
2045 Capacity	(1.00+)



Full report at:  
<https://tinyurl.com/y5wy3fe3>

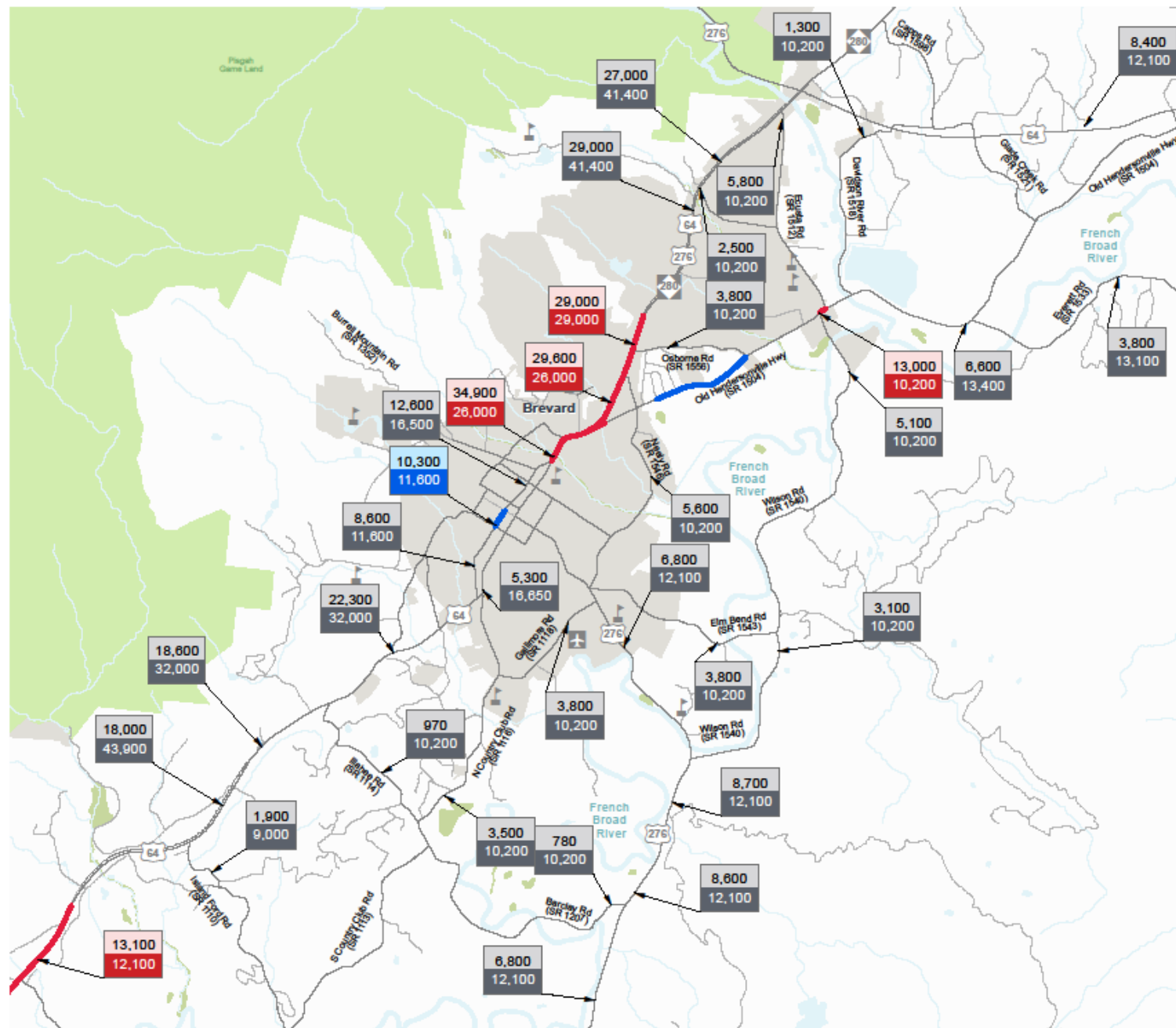


Sheet 2 of 2

Base map date: March 18, 2018

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DRAFT WORKING MAP  
Plan Date: October 04, 2019



TRANSYLVANIA  
COUNTY

### Volume and Capacity Ratio Features ( Future Year 2045 )

2045 Volume 2045 Capacity	Under Capacity (0-0.79)
2045 Volume 2045 Capacity	Near Capacity (0.80-0.99)
2045 Volume 2045 Capacity	Over Capacity (1.00+)



Full report at:  
<https://tinyurl.com/y5wy3fe3>

Base map date: March 18, 2018

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DRAFT WORKING MAP  
Plan Date: October 04, 2019



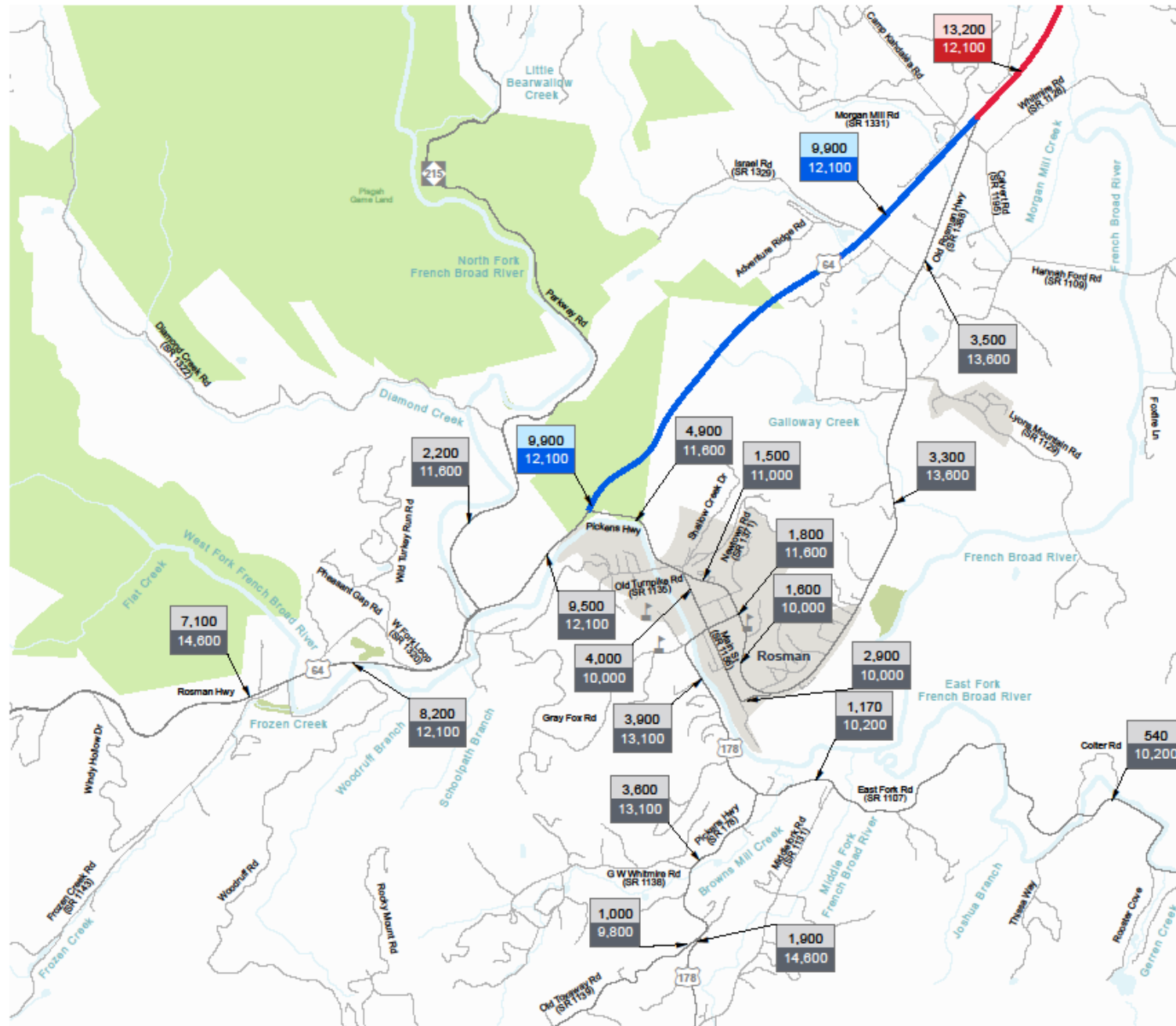


Figure 2  
2045 LOW OCCUPANCY  
VOLUME AND CAPACITY



## TRANSYLVANIA COUNTY

CTP Analysis and Information

Volume and Capacity Ratio Features  
(Future Year 2045)

2045 Volume	Under Capacity
2045 Capacity	(0-0.79)
2045 Volume	Near Capacity
2045 Capacity	(0.80-0.99)
2045 Volume	Over Capacity
2045 Capacity	(1.00+)



Full report at:  
<https://tinyurl.com/y5wy3fe3>

0 0.25 0.5 0.75 1 Miles

Sheet 2 of 2

Base map date: March 18, 2018

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DRAFT WORKING MAP  
Plan Date: October 06, 2019



# Seasonal Traffic Projections HIGH Occupancy

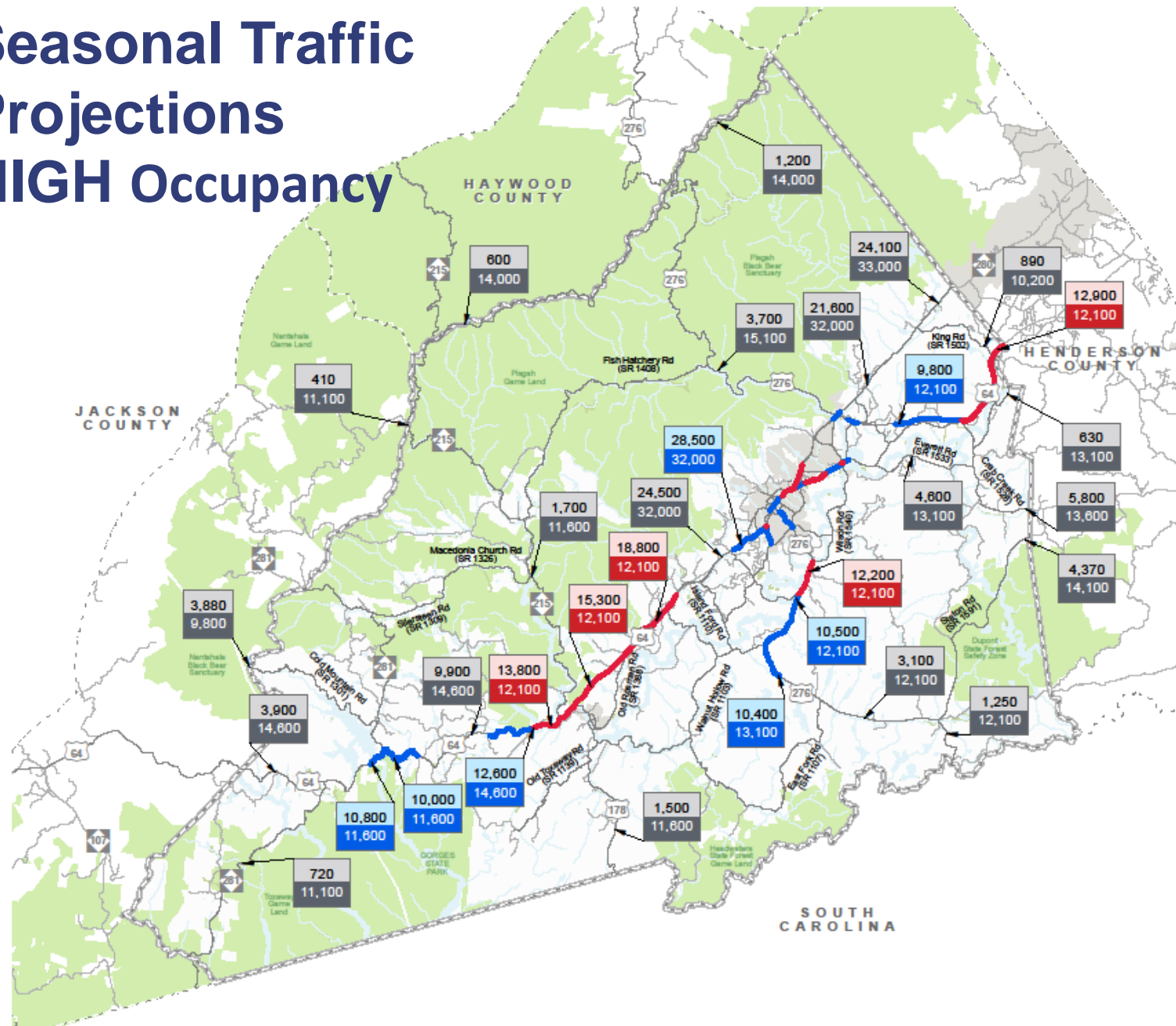


Figure 2  
2045 HIGH OCCUPANCY  
VOLUME AND CAPACITY



## TRANSYLVANIA COUNTY

CTP Analysis and Information

Volume and Capacity Ratio Features  
(Future Year 2045)

2045 Volume	Under Capacity
2045 Capacity	(0-0.79)
2045 Volume	Near Capacity
2045 Capacity	(0.80-0.99)
2045 Volume	Over Capacity
2045 Capacity	(1.00+)



Full report at:  
<https://tinyurl.com/y5wy3fe3>

0 1 2 4 6 8 Miles

Sheet 2 of 2

Base map date: March 18, 2018

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DRAFT WORKING MAP  
Plan Date: October 04, 2019

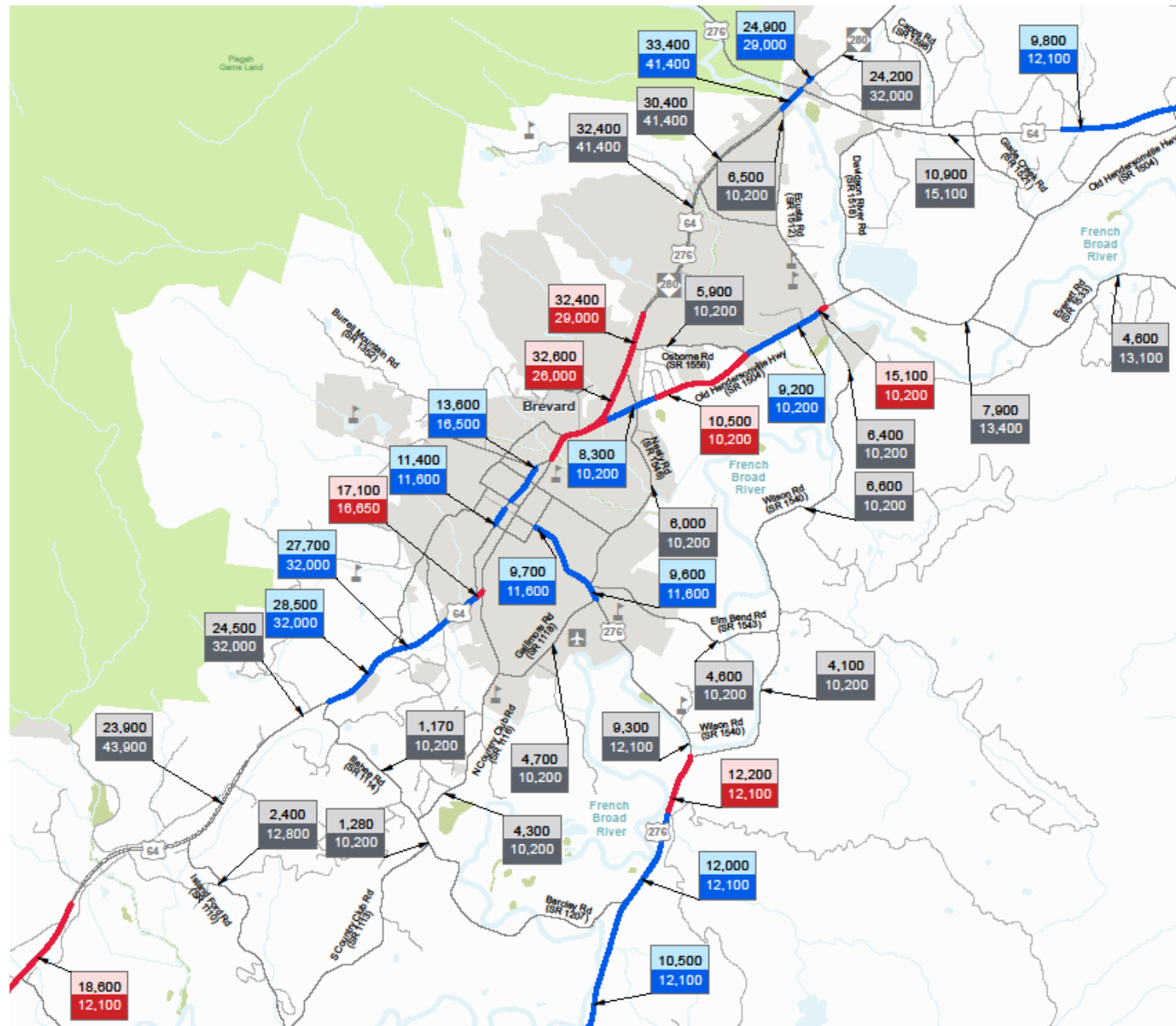


Figure 2  
2045 HIGH OCCUPANCY  
VOLUME AND CAPACITY



## TRANSYLVANIA COUNTY

CTP Analysis and Information

Volume and Capacity Ratio Features  
(Future Year 2045)

2045 Volume	Under Capacity
2045 Capacity	(0-0.79)
2045 Volume	Near Capacity
2045 Capacity	(0.80-0.99)
2045 Volume	Over Capacity
2045 Capacity	(1.00+)



Full report at:  
<https://tinyurl.com/y5wy3fe3>

0 0.25 0.5 1 1.5 2 Miles

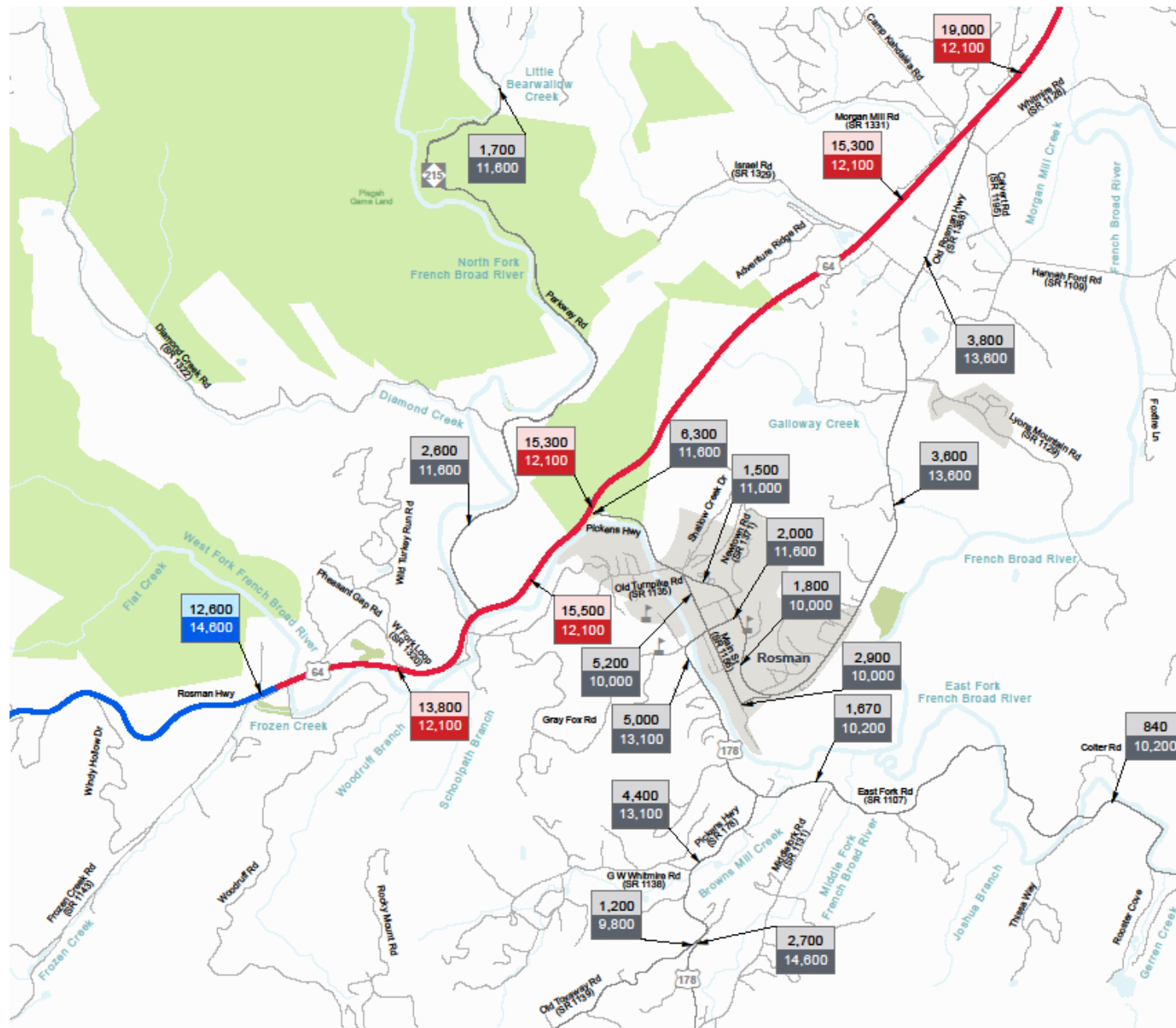
Sheet 2 of 2

Base map date: March 18, 2018

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DRAFT WORKING MAP  
Plan Date: October 04, 2019



TRANSYLVANIA  
COUNTY

### Volume and Capacity Ratio Features ( Future Year 2045 )

2045 Volume	Under Capacity (0-0.79)
2045 Capacity	
2045 Volume	Near Capacity (0.80-0.99)
2045 Capacity	
2045 Volume	Over Capacity (1.00+)
2045 Capacity	



Full report at:  
<https://tinyurl.com/y5wy3fe3>

Base map date: March 18, 2018

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DRAFT WORKING MAP  
Plan Date: October 06, 2019

## **Modernization, existing and proposes projects, and VC maps. (Mark-up exercise)**

- Large format maps of Existing, proposed projects and identified modernization locations and Volume/Capacity available on tables
- Review maps and identify any gaps or additional areas of concern
- Draw in additional needs and place notes on maps explaining

# Desired Outcomes

1. New Work Group members are up to speed on process and materials.
2. Work Group **provides direction** on **deficiencies** and **advises** project team on **additional highway needs including resiliency concerns** (via mark-up exercise or comments)
3. Work Group **provides input** on **Seasonal Traffic Projections**
4. Future meeting November ?



# Future Meetings

- Approximately Monthly
- 3:00 PM – 4:30 PM
- Next Meeting???
- Board of Elections (unless otherwise noted)



## Contact info for your team

- Vicki Eastland, Land of Sky RPO, [vicki.eastland@landofsky.org](mailto:vicki.eastland@landofsky.org) 828-251-6622
- Daniel Sellers, NCDOT TPD, [dc sellers1@ncdot.gov](mailto:dc sellers1@ncdot.gov) 919-707-0978
- Steve Williams, NCDOT Division 14, [sjwilliams@ncdot.gov](mailto:sjwilliams@ncdot.gov) 828-586-2141
- Troy Williams, NCDOT Division 14, [tswilson@ncdot.gov](mailto:tswilson@ncdot.gov) 828-586-2141
- Lonnie Watkins, NCDOT Division 14, [lnwatknis@ncdot.gov](mailto:lnwatknis@ncdot.gov) 828-891-7911

A blue 3D stick figure is holding a white rectangular sign with rounded corners and a black border. The sign is positioned in front of the figure's chest. The figure has a circular head and rectangular limbs.

**QUESTIONS?  
COMMENTS?**